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THE MARINE FISHERIES INFORMATION SERVICE: Technical and Extension Series envisages the rapid dissemination of information on marine and brackish water fishery resources and allied data available with the Fishery Data Centre and the Research Divisions of the Institute, results of proven researches for transfer of technology to the fish farmers and industry and of other relevant information needed for Research and Development efforts in the marine fisheries sector.

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1. Trends in marine fish production in India—1981

Cover photo : Collection of catch statistics at a fish landing centre

TRENDS IN MARINE FISH PRODUCTION IN INDIA—1981^{III}

The total marine fish production in India during 1981 was estimated at 13,78,457 tonnes as compared to 12,49,837 tonnes during 1980, showing an increase of about 10%. While West Bengal, Tamil Nadu, Pondicherry, Karnataka, Goa, Maharashtra, Gujarat and Lakshadweep recorded higher landings, Orissa and Kerala accounted lower catches as compared to 1980. The catch in Andhra Pradesh and Andamans remained more or less same (Table 1).

Table 1. Statewise total marine fish landings in India during the years 1981 and 1980 (in tonnes)

Sl.No.	State	1981	1980
1.	West Bengal	20,107	6,097*
2.	Orissa	35,655	39,375
3.	Andhra Pradesh	1,16,143	1,16,013
4.	Tamil Nadu	2,21,296	2,17,394
5.	Pondicherry**	10,755	9,390
6.	Kerala	2,74,395	2,79,543
7.	Karnataka	1,53,349	1,15,322
8.	Goa***	34,498	24,490
9.	Maharashtra	2,72,587	2,31,763
10.	Gujarat	2,34,510	2,03,494
11.	Andamans	1,862	1,803
12.	Lakshadweep	3,300	2,909
13.	Private trawlers†	—	2,244
TOTAL		13,78,457	12,49,837

* Contai coast only

** Excluding Mahe and Yenam which are included in Kerala and Andhra Pradesh respectively.

*** Excluding Daman and Diu which are included in Gujarat.

† Partial coverage of larger trawlers.

Comparable figure for 1981 is not available.

Pelagic and demersal group of fishes

The specieswise composition of total marine fish landings in India is shown in Table 2. The pelagic group of species comprises of *Chirocentrus*, oil sardine, lesser sardines, hilsa shad, other shads, *Stolephorus*, (white bait), *Thryssa*, *Setipinna*, *Coilia*, other clupeoids, Bombay duck, half beaks and full beaks, flying fish, ribbon fish, carangids, mackerel, seer fish, tunnies,

barracudas, mullets and unicorn cod. The elasmobranchs, eels, catfishes, lizard fishes, perches, red mullets, polynemids, sciaenids, silverbellies, *Lactarius*, pomfrets, soles, prawns, lobsters and cephalopods form the demersal group. The statewise break-up of pelagic and demersal groups of fishes is shown in Table 3 and Fig. 1.

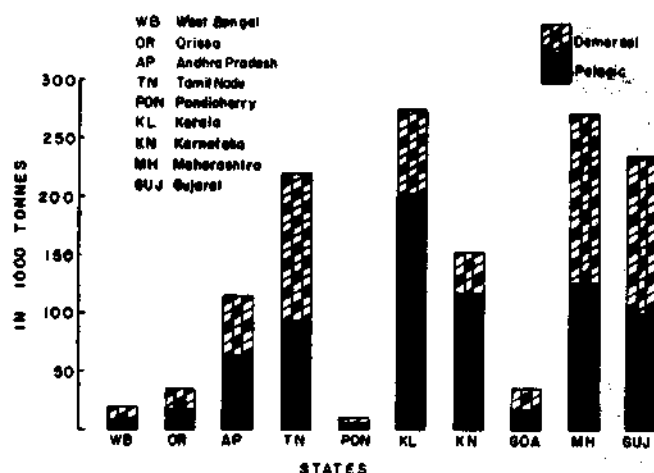


Fig. 1. Pelagic and demersal catch in different states during 1981

From Table 3 it is noticed that Kerala accounted for the highest catch of pelagic group of fishes during 1981, followed by Maharashtra, Karnataka, Gujarat, Tamil Nadu and Andhra Pradesh. As regards demersal group of fishes, Maharashtra recorded the maximum catch followed by Gujarat, Tamil Nadu, Kerala, Andhra Pradesh and Karnataka.

All India marine fish production during 1971 to 1981

Table 4 shows the all India total marine fish production and species composition for the 11 year period 1971 to 1981. The production figures show a fluctuating trend between 1971 and 1981, the maximum and minimum landings being 1.42 million in 1975 and 0.98 million tonnes in 1972 respectively. The landings during 1981 formed about 97% of the maximum catch recorded in 1975. The trends in marine fish production in respect of various maritime states of India are shown in Tables 5 to 17.

Table 2. Estimated marine fish landings in India during 1981 (in tonnes)

Sl. No.	Name of fish	West Bengal	Orissa	Andhra Pradesh	Tamil Nadur	Pondicherry	Kerala	Karnataka	Goa	Maharashtra	Gujarat	Andamans	Lakshadweep	Total
1.	Elasmobranchs													
a.	Sharks	311	2,293	2,869	2,240	193	3,580	3,929	881	7,471	9,134	21	189	33,111
b.	Skates	170	—	367	124	—	120	—	—	176	101	—	—	1,058
c.	Rays	113	917	2,000	10,878	194	1,171	136	169	2,028	4,198	14	22	21,840
2.	Eels	—	24	406	93	13	3	—	19	2,290	2,179	—	—	5,027
3.	Catfishes	4,449	6,084	4,250	3,792	102	9,562	7,503	2,211	11,045	10,370	22	—	59,390
4.	Clupeoids													
a.	Wolf herring (<i>Chirocentrus</i>)	296	1,281	1,111	1,820	85	973	118	181	2,918	2,986	25	—	11,794
b.	Oil sardine	—	—	—	195	—	1,46,986	65,614	7,609	622	—	—	—	2,21,026
c.	Other sardines (Lesser sardines)	—	4,535	15,719	24,448	1,342	7,629	5,328	2,296	420	—	263	—	61,980
d.	Hilsa shad (<i>Hilsa ilisha</i>)	2,672	2,085	40	52	—	8	1	2	530	17	—	—	5,407
e.	Other shads (Other Hilsa)	44	353	1,343	3,516	129	15	331	26	2,201	10,283	26	—	18,267
f.	Anchovies													
	<i>Coilia</i>	245	43	54	203	6	—	1	—	17,164	2,466	—	—	20,182
	<i>Setipinna</i>	456	114	177	285	70	—	—	—	—	—	—	—	1,102
	<i>Stolephorus</i>	4	86	13,829	8,357	507	4,293	5,959	108	55	—	185	—	33,383
	(<i>Anchoviella</i>)													
	<i>Thryssa</i> (<i>Thrissocles</i>)	66	322	2,523	6,465	520	634	296	593	944	1,274	—	—	13,637
g.	Other clupeoids	2,407	2,050	4,942	5,038	394	944	950	341	3,150	4,601	—	—	24,817
5.	Bombay duck (<i>Harporodon nehereus</i>)	618	73	845	3	—	—	—	1	82,136	54,114	—	—	1,37,790
6.	Lizard fishes (<i>Saurida</i> & <i>Saurus</i>)	—	108	1,024	1,455	246	5,691	333	707	1,308	110	—	—	10,982
7.	Half beaks & full beaks (<i>Hemirhamphus</i> & <i>Belone</i>)	1	2	29	819	57	565	148	2	46	—	17	113	1,799
8.	Flying fishes	—	—	—	2,460	614	16	—	—	—	—	3	16	3,109
9.	Perches													
a.	Rock cods	—	1	35	549	13	734	10	3	119	189	—	—	1,653
b.	Snappers	—	10	210	553	—	76	53	3	136	328	—	—	1,369
c.	Pig face breams	—	—	—	771	17	91	1	—	7	—	—	—	887
d.	Threadfin breams	—	7	2,049	1,687	407	6,442	256	562	2,156	2,055	—	—	15,621
e.	Other perches	37	104	3,400	2,893	495	1,206	79	615	199	2,260	192	315	11,795
10.	Goat fishes (Red mullets)	—	104	684	1,116	155	33	—	60	982	294	—	25	3,453
11.	Threadfins (Polynemids)	312	566	776	236	1	47	—	14	711	1,585	—	—	4,248
12.	Croakers (Sciaenids)	270	2,133	7,046	13,140	330	3,145	2,295	1,610	17,475	35,242	—	—	82,686
13.	Ribbon fishes	161	995	8,207	7,605	217	7,066	235	684	8,048	8,327	24	—	41,569
14.	Carangids													
a.	Horse mackerel	—	68	275	16	—	55	999	113	135	757	—	—	2,418
b.	Scads	—	97	3,523	1,265	162	1,688	13	—	—	—	—	—	6,748
c.	Leather jackets (<i>Chorinemus</i>)	62	196	453	608	32	318	148	44	360	2,764	—	—	4,985
d.	Other carangids	—	150	1,415	12,735	1,507	2,989	2,429	565	1,014	89	196	105	23,194

Table 2 Contd.

Sl. No.	Name of fish	West Bengal	Orissa	Andhra Pradesh	Tamil Nadu	Pondicherry	Kerala	Karnataka	Goa	Maharashtra	Gujarat	Andamans	Lakshadweep	Total
15.	Silverbellies (<i>Leiognathus</i> & <i>Gazza</i>)	—	733	9,856	50,942	975	2,826	1,638	2,075	129	—	275	—	69,449
16.	Big-jawed jumper (<i>Lactarius</i>)	—	49	817	818	44	879	515	820	500	3,769	—	—	8,211
17.	Pomfrets													
a.	Black pomfret	8	780	1,778	524	96	616	53	103	2,965	2,853	1	—	9,777
b.	Silver pomfret	2,770	2,903	891	143	27	747	358	20	14,178	16,147	5	—	38,189
c.	Chinese pomfret	540	2	29	3	—	10	8	—	1	169	—	—	762
18.	Mackerel													
a.	<i>R. kanagurta</i>	—	823	3,255	3,900	308	16,200	19,766	3,939	289	—	156	—	48,660
b.	Other mackerel	—	—	—	16	8	—	—	—	—	—	—	—	—
19.	Seer fishes													
a.	<i>S. commersoni</i>	1,072	91	1,082	4,900	49	1,580	1,237	447	1,717	1,516	76	25	13,792
b.	<i>S. guttatus</i>	57	2,424	2,468	515	52	1,744	842	165	1,097	4,020	73	25	13,482
c.	<i>S. lineolatus</i>	—	25	13	16	—	6	188	31	—	—	—	—	279
d.	<i>Acanthocybium</i> spp.	—	—	—	—	—	—	—	—	—	—	—	—	—
20.	Tunnies													
a.	<i>E. affinis</i>	—	105	194	3,062	6	4,076	2,516	48	235	1,383	—	23	11,648
b.	<i>Auxis</i> spp	—	—	—	77	—	1,124	1	—	—	—	—	—	1,202
c.	<i>K. pelamis</i>	—	—	—	19	—	—	—	—	7	—	33	1,744	1,803
d.	<i>T. tonggol</i>	—	—	—	—	—	22	—	—	47	14	—	—	83
e.	Other tunnies	—	145	144	662	49	287	—	140	959	203	9	469	3,067
21.	Bill fishes	—	1	204	148	17	129	3	5	72	—	—	17	596
22.	Barracudas (<i>Sphyræna</i>)	—	9	124	948	50	812	75	38	16	1	40	12	2,125
23.	Mullets (<i>Mugil</i>)	1	—	182	409	5	120	1	206	35	1,118	78	—	2,155
24.	Unicorn cod (<i>Bregmaceros</i>)	—	—	—	—	—	—	—	—	13	451	—	—	464
25.	Flat fishes													
a.	Halibut (<i>Psettodes erumei</i>)	—	—	46	204	6	158	—	—	26	180	—	—	620
b.	Flounders	—	—	1,037	29	—	—	—	727	69	—	—	—	1,862
c.	Soles	4	47	1,130	1,198	188	4,876	545	—	1,689	3,705	—	—	13,382
26.	Crustaceans													
a.	Penaeid prawns	244	1,328	6,728	13,548	336	22,268	4,122	2,237	21,717	10,985	26	—	83,539
b.	Non penaeid prawns	1,251	55	1,607	704	53	160	4	—	52,854	4,742	—	—	61,430
c.	Lobsters	—	3	1	238	5	50	—	9	388	786	1	—	1,481
d.	Crabs	—	147	1,512	9,168	236	168	650	526	112	14,083	14	—	26,616
e.	Stomatopods	—	145	288	317	—	2,830	8,718	2,170	384	2,466	—	—	17,318
27.	Cephalopods	—	57	512	1,687	44	2,376	266	94	1,755	2,743	—	14	9,548
28.	Miscellaneous	1,466	982	2,644	11,684	393	4,251	14,678	1,279	5,487	7,453	87	186	50,590
TOTAL		20,107	35,655	1,16,143	2,21,296	10,755	2,74,395	1,53,349	34,498	2,72,587	2,34,510	1,862	3,300	13,78,457

Table 3. *Statewise break-up of the landings of pelagic and demersal group of fishes during 1981 (in tonnes)*

Sl.No.	State	Pelagic	Demersal	Total
1.	West Bengal	8,804	11,303	20,107
2.	Orissa	16,528	19,127	35,655
3.	Andhra Pradesh	63,663	52,480	1,16,143
4.	Tamil Nadu	95,609	1,25,687	2,21,296
5.	Pondicherry	6,421	4,334	10,755
6.	Kerala	2,03,431	70,964	2,74,395
7.	Karnataka	1,18,545	34,804	1,53,349
8.	Goa	18,261	16,237	34,498
9.	Maharashtra	1,26,782	1,45,805	2,72,587
10.	Gujarat	99,548	1,34,962	2,34,510
11.	Andamans	1,263	599	1,862
12.	Lakshadweep	2,701	599	3,300
TOTAL		7,61,556	6,16,901	13,78,457

Statewise marine fish production

West Bengal

During 1981, the total marine fish landings in West Bengal were estimated at about 20,000 t in comparison to 6,000 t in 1980. However, it may be noted that during 1981, 24 Parganas district was covered for the first time in addition to Contai coast of Midnapore district in the regular survey programme for marine fish catch estimates in West Bengal. The species that were landed in substantial quantities were catfishes (4,400 t, 22%), pomfrets (3,300 t, 16%), hilsa shad (2,700 t, 13%), other clupeoids (2,400 t, 12%), non-penaeid prawns (1,300 t, 6%) and seer fish (1,100 t, 5%). Table 5 shows the specieswise composition of marine fish landings in West Bengal during the years 1976 to 1981. Prior to 1976, the estimates for West Bengal were combined with that of Orissa and the combined figures for West Bengal and Orissa are shown in Table 6 for the years 1969 to 1975.

Orissa

The total catch declined by about 3,700 t (9%) in 1981 as compared to previous year. The reduction in the total landings was mainly due to a fall in the catches of pomfrets and hilsa shad whose catches were lower by about 5,400 and 3,000 t respectively. The catch of catfishes and lesser sardines, however, increased by about 4,000 and 2,600 t respectively. Table 7 shows the specieswise composition of marine fish catch in Orissa for the years 1976 to 1981.

Andhra Pradesh

No variation was seen in the total catch during 1981, the estimated catch for 1980 and 1981 being about 1.16 lakh tonnes each. The species that showed an increase in their landings were white baits, silverbellies, catfishes, lesser sardines, penaeid prawns and perches, the increase being 7,600, 6,100, 1,900, 1,800, 1,500 and 1,000 t respectively. This was offset by the decrease in the landings of ribbon fish, *Thryssa*, mackerel, non-penaeid prawns and sciaenids, the decrease in their landings being 7,400, 4,800, 2,900, 2,700 and 2,500 t respectively. The specieswise composition of marine fish landings in Andhra Pradesh for the years 1971-1981 are shown in Table 8.

Tamil Nadu

The total landings in Tamil Nadu during 1981 increased marginally by about 4,000 t as compared to 1980 with a significant increase in the landings of silverbellies to the extent of about 13,000 t. The catch of penaeid prawns, other crustaceans and *Thryssa* also showed an increase of about 4,500, 3,300 and 1,400 t respectively. A decline in the landings of croakers, lesser sardines, white baits, elasmobranchs and seer fish by about 6,400, 5,500, 4,800, 2,200, 1,700 t respectively was also noticed. Table 9 shows the specieswise composition of marine fish catch in Tamil Nadu for the years 1971 to 1981.

Pondicherry

An increase of about 1,400 t (15%) in the total catch was noticed during 1981 when compared with that of 1980. While the landings of carangids, flying fish and perches increased by 1,200, 600 and 300 t respectively, the catch of lesser sardines declined by about 1,400 t. The specieswise composition of marine fish production in Pondicherry during the years 1971 to 1981 is shown in Table 10.

Kerala

The total catch in Kerala during 1981 declined marginally by about 5,100 t (2%) compared to the previous year. A significant increase in the catch of oil sardine by about 77,000 t was noticed. However, another major fishery of this state, prawn fishery, suffered a set back with a decline of about 30,000 t. This was to a great extent due to the fall in the catches of prawns in Sakthikulangara, to the tune of about 27,000 tonnes in 1981 as compared to 1980. The other important species that showed a decline in their landings were

Table 4. Composition of marine fish landings in India during 1971 to 1981 (in tonnes)

Sl. No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	41,348	46,237	44,917	66,054	65,230	54,605	62,216	61,621	52,843	57,862	56,009
2.	Eels	4,056	4,509	3,869	4,011	5,710	8,296	12,997	8,781	7,155	12,082	5,027
3.	Catfishes	48,858	42,443	52,642	76,196	68,689	43,540	53,504	39,231	48,817	43,745	59,390
4.	<i>Chirocentrus</i>	9,366	9,532	11,090	9,026	11,813	10,368	11,909	10,990	10,274	12,805	11,794
5.	a. Oil sardine	2,09,261	1,27,568	1,44,395	1,26,676	1,59,240	1,69,262	1,50,130	1,68,078	1,53,971	1,15,744	2,21,026
	b. Lesser sardines	61,283	44,629	1,08,523	83,921	1,12,117	1,00,000	65,724	52,838	68,351	67,053	61,980
	c. <i>Hilsa ilisha</i>	1,769	1,409	404	4,248	8,897	7,842	4,189	9,894	12,068	6,996	5,407
	d. Other <i>Hilsa</i>	10,361	12,229	11,918	7,541	7,567	8,482	14,651	12,800	8,672	9,127	18,267
	e. <i>Anchoviella</i>	19,516	18,699	25,394	41,507	30,744	30,069	34,033	39,054	26,588	33,684	33,383
	f. <i>Thrissocles</i>	10,801	11,130	13,194	11,433	9,997	17,660	9,929	14,304	16,628	19,342	13,637
	g. Other clupeoids	24,100	28,490	35,350	43,226	52,786	57,164	41,458	37,020	33,965	38,270	44,999
6.	a. <i>Harpodon nehereus</i>	71,508	51,570	64,345	61,138	99,614	87,075	85,236	1,25,481	1,26,044	95,505	1,37,790
	b. <i>Saurida & Saurus</i>	3,687	4,748	4,049	12,520	14,323	5,292	8,525	10,808	11,154	11,332	10,982
7.	<i>Hemirhamphus & Belone</i>	1,018	687	1,110	4,574	1,980	1,169	2,311	1,478	1,577	1,653	1,799
8.	Flying fish	9,179	1,415	6,388	1,012	1,832	1,439	643	1,681	2,546	1,255	3,109
9.	Perches	12,993	15,247	21,513	36,837	35,232	18,162	31,799	49,312	35,657	38,541	31,325
10.	Red mullets	3,881	6,004	3,925	7,009	2,641	5,216	2,422	2,984	3,130	2,416	3,453
11.	Polynemids	7,252	7,100	9,248	10,637	14,044	14,573	3,929	5,469	5,809	6,056	4,248
12.	Sciaenids	36,903	40,159	87,682	79,261	1,14,535	87,581	99,887	96,379	93,018	89,360	82,686
13.	Ribbon fish	44,690	36,225	53,106	63,029	57,330	64,542	42,407	77,785	71,349	62,690	41,569
14.	a. <i>Caranx</i>	20,592	27,009	25,298	19,316	23,005	25,745	30,666	16,956	28,942	24,265	9,166
	b. <i>Chorinemus</i>	2,109	2,952	2,827	3,797	3,380	3,322	4,119	3,359	3,307	4,182	4,985
	c. <i>Trachynotus</i>	17	2	189	122	64	35	80	106	195	40	
	d. Other carangids	304	308	129	91	207	1,572	219	423	465	945	
	e. <i>Coryphaena</i>	59	222	228	286	411	261	226	64	146	302	23,194
	f. <i>Elacate</i>	347	403	529	229	221	383	429	568	880	379	
15.	a. <i>Lelognathus</i>	32,510	32,314	48,127	50,902	39,813	42,445	34,504	41,777	55,266	54,400	69,449
	b. <i>Gazza</i>	156	78	41	338	424	966	61	104	197	186	
16.	<i>Lactarius</i>	5,313	7,579	13,912	8,913	11,848	12,045	10,961	7,906	4,474	7,415	8,211
17.	Pomfrets	21,000	19,007	22,052	22,421	24,987	37,701	35,127	41,434	40,427	38,231	48,728
18.	Mackerel	2,04,575	1,08,971	79,423	37,462	45,947	65,497	62,136	85,233	71,514	55,279	48,660
19.	Seer fish	18,339	21,210	19,700	19,841	18,897	20,159	21,119	20,779	29,547	25,986	27,553
20.	Tunnies	6,032	5,760	5,678	10,839	11,285	19,322	13,005	13,893	26,595	20,371	17,803
21.	<i>Sphyræna</i>	1,271	2,367	3,415	4,862	2,150	2,388	2,423	3,709	2,265	1,782	2,125
22.	<i>Mugil</i>	3,737	1,559	3,138	4,497	3,515	2,613	2,269	2,626	1,400	2,030	2,155
23.	<i>Bregmaceros</i>	4,345	5,488	4,213	1,872	1,043	380	30	184	638	916	464
24.	Soles	11,380	9,718	14,642	18,917	12,044	10,088	10,810	13,620	12,203	13,633	15,864
25.	a. Penaeid prawns	72,109	78,361	1,36,514	1,14,934	1,41,713	1,14,640	96,472	1,29,204	1,13,665	1,12,037	83,539
	b. Non-penaeid prawns	76,734	85,488	66,955	55,244	79,038	76,787	73,992	50,652	63,917	58,700	61,430
	c. Lobsters	—	—	—	—	2,991	2,532	1,217	1,307	1,135	679	1,481
	d. Crabs & other crustaceans	9,612	11,599	12,508	16,663	19,893	19,999	20,068	14,202	20,304	25,386	43,934
26.	Cephalopods	1,505	1,026	1,394	3,677	7,889	10,826	10,005	15,931	15,032	11,335	9,548
27.	Miscellaneous	37,513	48,598	56,266	72,718	97,607	90,812	91,945	1,13,582	1,06,250	65,840	52,288
TOTAL		11,61,389	9,80,049	12,20,240	12,17,797	14,22,693	13,52,855	12,59,782	14,03,607	13,88,380	12,49,837	13,78,457

In Tables 4 to 17, for purpose of comparison with previous years, the following fishes have been included in the groups mentioned against them for the year 1981. (1) *Coilia* and *Setipinna* in other clupeoids and miscellaneous respectively. (2) Bill fishes in miscellaneous (3) Stomatopods in Crabs and other crustaceans.

Table 5. *Composition of marine fish landings in West Bengal during 1976 to 1981 (in tonnes)*

Sl.No.	Name of fish	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	493	73	125	244	114	594
2.	Eels	1	1	—	—	—	—
3.	Catfishes	785	134	151	140	723	4,449
4.	<i>Chirocentrus</i>	251	107	217	407	276	296
5. a.	Oil sardine	—	—	—	—	—	—
b.	Lesser sardines	12	—	4	—	—	—
c.	<i>Hilsa ilisha</i>	799	96	193	660	644	2,672
d.	Other <i>Hilsa</i>	—	—	28	38	20	44
e.	<i>Anchoviella</i>	6	4	24	14	—	4
f.	<i>Thrissocles</i>	1,397	365	774	270	194	66
g.	Other clupeoids	1,790	705	1,174	1,517	674	2,652
6. a.	<i>Harpodon nehereus</i>	2,253	1,060	1,365	1,211	419	618
b.	<i>Saurida & Saurus</i>	—	—	—	—	—	—
7.	<i>Hemirhamphus & Belone</i>	—	—	11	—	—	1
8.	Flying fish	—	—	—	—	—	—
9.	Perches	1	—	—	225	13	37
10.	Red mullets	—	—	—	—	—	—
11.	Polynemids	69	25	87	172	186	312
12.	Sciaenids	4,066	819	1,772	915	358	270
13.	Ribbon fish	701	306	681	291	142	161
14. a.	<i>Caranx</i>	—	—	2	71	—	—
b.	<i>Chorinemus</i>	37	12	38	67	130	62
c.	<i>Trachynotus</i>	—	—	—	—	—	—
d.	Other carangids	—	—	—	—	—	—
e.	<i>Coryphaena</i>	—	—	—	—	—	—
f.	<i>Elacate</i>	—	—	—	—	—	—
15. a.	<i>Leiognathus</i>	219	15	297	96	34	—
b.	<i>Gazza</i>	—	—	—	—	—	—
16.	<i>Lactarius</i>	—	1	—	—	—	—
17.	Pomfrets	586	143	282	923	921	3,318
18.	Mackerel	—	—	—	—	—	—
19.	Seer fish	287	32	54	331	234	1,129
20.	Tunnies	—	—	—	—	—	—
21.	<i>Sphyraena</i>	—	—	—	—	—	—
22.	<i>Mugil</i>	2	—	—	—	—	1
23.	<i>Bregmaceros</i>	—	—	—	—	—	—
24.	Soles	—	—	24	—	3	4
25. a.	Penaeid prawns	2,139	602	605	410	152	244
b.	Non penaeid prawns	2,708	269	663	161	48	1,251
c.	Lobsters	—	—	—	—	—	—
d.	Other crustaceans	—	—	—	—	20	—
26.	Cephalopods	—	—	30	—	4	—
27.	Miscellaneous	6,809	1,920	4,153	2,581	788	1,922
TOTAL		25,411	6,689	12,754	10,744	6,097	20,107

Table 6. Composition of marine fish landings in West Bengal & Orissa during 1969 to 1975 (in tonnes)

Sl.No.	Name of fish	1969	1970	1971	1972	1973	1974	1975
1.	Elasmobranchs	492	1,167	325	829	833	1,672	1,450
2.	Eels	—	—	8	24	43	84	4
3.	Catfishes	191	446	315	525	534	1,232	3,383
4.	<i>Chirocentrus</i>	1,025	1,163	464	334	737	565	687
5. a.	Oil sardine	247	—	2	—	38	4	—
b.	Lesser sardines	3,905	3,058	2,044	1,442	2,035	1,740	957
c.	<i>Hilsa ilisha</i>	47	289	104	37	162	3,513	5,254
d.	Other <i>Hilsa</i>	22	—	77	7	203	207	181
e.	<i>Anchoviella</i>	900	510	316	673	768	362	207
f.	<i>Thrissoles</i>	234	806	222	374	160	785	1,608
g.	Other clupeoids	2,737	7,112	1,342	819	3,408	2,122	3,436
6. a.	<i>Harpodon nehereus</i>	1,348	818	1,031	924	1,984	1,326	3,043
b.	<i>Saurida & Saurus</i>	26	89	10	9	3	5	6
7.	<i>Hemirhamphus & Belone</i>	5	6	3	4	1	—	5
8.	Flying fish	—	—	—	—	—	—	—
9.	Perches	4	30	121	50	104	38	201
10.	Red mullets	34	—	5	10	4	20	14
11.	Polynemids	50	258	88	88	136	313	224
12.	Sciaenids	1,274	2,617	2,727	2,479	1,323	1,671	4,474
13.	Ribbon fish	581	1,470	825	530	902	550	1,252
14. a.	<i>Caranx</i>	372	844	91	79	132	27	237
b.	<i>Chorinemus</i>	100	91	70	74	172	212	165
c.	<i>Trachynotus</i>	—	—	—	—	—	—	—
d.	Other carangids	—	—	—	—	—	1	2
e.	<i>Coryphaena</i>	—	—	—	—	—	—	—
f.	<i>Elacate</i>	—	—	—	—	—	16	1
15. a.	<i>Leiognathus</i>	937	891	317	921	438	399	552
b.	<i>Gazza</i>	—	—	4	—	—	—	—
16.	<i>Lactarius</i>	5	58	8	29	7	24	6
17.	Pomfrets	423	426	643	634	728	1,110	2,501
18.	Mackerel	28	1,764	398	102	80	211	116
19.	Seer fish	612	826	338	329	769	1,169	554
20.	Tunnies	—	1	42	28	46	9	16
21.	<i>Sphyraena</i>	—	6	9	6	1	5	3
22.	<i>Mugil</i>	13	37	23	68	18	40	44
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—
24.	Soles	45	57	8	41	24	100	30
25. a.	Penaeid prawns	5,638	2,994	1,314	1,471	2,565	2,322	2,920
b.	Non penaeid prawns	—	22	86	—	486	1,165	2,787
c.	Other crustaceans	—	3	1	3	60	45	8
26.	Cephalopods	2	3	89	7	7	—	2
27.	Miscellaneous	1,582	3,541	4,462	2,380	3,825	3,028	9,431
TOTAL		22,879	31,403	18,032	15,330	22,736	26,092	45,761

Table 7. *Composition of marine fish landings in Orissa during 1976 to 1981 (in tonnes)*

Sl.No.	Name of Fish	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	2,974	1,658	3,386	4,331	3,772	3,210
2.	Eels	1	—	3	2	—	24
3.	Catfishes	1,988	1,035	1,794	1,308	2,198	6,084
4.	<i>Chirocentrus</i>	517	752	1,073	1,644	1,460	1,281
5. a.	Oil sardine	—	—	—	—	—	—
b.	Lesser sardines	1,657	1,227	2,514	2,687	1,891	4,535
c.	<i>Hilsa ilisha</i>	5,477	2,948	7,737	9,969	5,091	2,085
d.	Other <i>Hilsa</i>	129	492	848	359	46	353
e.	<i>Anchoviella</i>	339	486	1,169	505	270	86
f.	<i>Thrissoles</i>	106	197	175	295	333	322
g.	Other clupeoids	772	778	1,330	1,431	2,576	2,093
6. a.	<i>Harpodon nehereus</i>	87	86	314	449	378	73
b.	<i>Saurida & Saurus</i>	1	5	5	50	189	108
7.	<i>Hemirhamphus & Belone</i>	1	—	13	28	46	2
8.	Flying fish	—	—	4	4	17	—
9.	Perches	31	55	173	151	341	122
10.	Red mullets	1	1	2	2	296	104
11.	Polynemids	244	406	1,287	1,491	1,126	566
12.	Sciaenids	333	312	5,198	5,351	2,864	2,133
13.	Ribbon fish	130	174	336	616	928	995
14. a.	<i>Caranx</i>	147	103	68	326	607	165
b.	<i>Chorinemus</i>	237	386	815	716	567	196
c.	<i>Trachynotus</i>	—	—	—	—	—	—
d.	Other carangids	—	—	—	—	—	150
e.	<i>Coryphaena</i>	2	1	—	1	—	—
f.	<i>Elacate</i>	—	9	3	1	—	—
15. a.	<i>Leiognathus</i>	378	233	256	1,108	704	733
b.	<i>Gazza</i>	1	—	—	—	3	—
16.	<i>Lactarius</i>	1	18	12	5	65	49
17.	Pomfrets	10,699	1,018	5,714	10,109	9,072	3,685
18.	Mackerel	425	195	196	306	265	823
19.	Seer fish	940	672	1,059	2,444	1,542	2,540
20.	Tunnies	84	37	609	31	34	250
21.	<i>Sphyræna</i>	1	3	4	5	8	9
22.	<i>Mugil</i>	5	—	3	22	1	—
23.	<i>Bregmaceros</i>	—	—	—	—	—	—
24.	Soles	6	72	103	125	69	47
25. a.	Penaeid prawns	688	802	2,599	2,983	1,074	1,328
b.	Non penaeid prawns	100	17	12	34	30	55
c.	Lobsters	—	—	—	—	—	3
d.	Other crustaceans	23	6	4	6	359	292
26.	Cephalopods	27	—	4	14	98	57
27.	Miscellaneous	1,271	888	848	2,899	1,055	1,097
TOTAL		29,823	15,072	39,670	51,808	39,375	35,655

Table 8. Composition of marine fish landings in Andhra Pradesh during 1971 to 1981 (in tonnes)

Sl.No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	4,530	7,400	8,354	11,394	9,977	6,688	6,450	8,704	6,994	4,842	5,236
2.	Eels	107	110	270	451	1,837	205	438	1,082	245	289	406
3.	Catfishes	2,724	3,651	10,780	15,890	9,824	6,131	5,662	3,281	3,799	2,338	4,250
4.	<i>Chirocentrus</i>	1,439	2,248	2,635	2,281	2,920	1,837	1,217	1,262	976	1,123	1,111
5.	a. Oil sardine	—	—	125	564	131	112	—	—	—	—	—
	b. Lesser sardines	19,949	7,587	11,928	31,520	32,994	23,220	10,972	7,685	6,180	13,930	15,719
	c. <i>Hilsa ilisha</i>	796	220	45	—	70	280	41	2	78	96	40
	d. Other <i>Hilsa</i>	769	3,087	2,783	2,347	930	1,815	1,654	1,349	1,092	1,267	1,343
	e. <i>Anchoviella</i>	1,332	2,905	4,865	9,869	7,037	11,309	8,947	7,810	5,888	6,182	13,829
	f. <i>Thrissoles</i>	953	1,111	2,486	1,895	1,776	1,763	1,398	1,824	3,433	7,326	2,523
	g. Other clupeoids	6,004	8,892	9,184	10,195	7,536	8,410	2,363	1,794	2,518	5,486	4,996
6.	a. <i>Harpodon nehereus</i>	778	297	221	125	359	214	960	1,099	717	611	845
	b. <i>Saurida & Saurus</i>	112	504	386	267	242	166	875	1,057	1,379	931	1,024
7.	<i>Hemirhamphus & Belone</i>	208	17	3	194	24	14	135	60	100	97	29
8.	Flying fish	247	52	105	2	1	—	84	65	71	43	—
9.	Perches	1,466	1,485	1,470	2,213	4,888	1,751	2,727	1,945	3,095	4,639	5,694
10.	Red mullets	372	447	220	305	721	553	315	335	426	349	684
11.	Polynemids	1,570	2,185	1,393	2,231	1,836	1,813	698	1,075	1,412	1,448	776
12.	Sciaenids	5,954	7,277	7,576	12,358	11,682	10,891	10,182	5,597	8,825	9,496	7,046
13.	Ribbon fish	7,432	3,585	3,761	11,834	11,701	12,443	8,546	5,505	6,337	15,646	8,207
14.	a. <i>Caranx</i>	2,484	2,425	2,589	2,901	3,498	3,047	4,003	2,000	3,185	5,981	3,798
	b. <i>Chorinemus</i>	533	552	1,056	1,620	1,790	1,820	530	665	444	710	453
	c. <i>Trachynotus</i>	—	—	—	—	6	1	—	—	—	—	—
	d. Other carangids	15	—	—	—	6	5	78	87	56	97	1,415
	e. <i>Coryphaena</i>	17	106	36	101	251	89	137	24	7	3	—
	f. <i>Elacate</i>	2	38	56	2	25	14	7	53	—	19	—
15.	a. <i>Leiognathus</i>	2,247	2,971	2,806	4,830	11,268	3,876	5,903	2,174	3,585	3,775	9,856
	b. <i>Gazza</i>	—	1	3	12	101	48	—	—	—	56	—
16.	<i>Lactorius</i>	841	1,396	982	1,914	2,513	1,718	1,132	684	945	940	817
17.	Pomfrets	3,591	4,165	4,087	3,945	5,697	4,088	2,529	2,445	2,069	2,201	2,698
18.	Mackerel	1,402	5,396	2,519	1,734	1,593	2,084	1,040	2,520	2,621	6,203	3,255
19.	Seer fish	3,352	5,830	4,054	4,438	5,277	3,412	3,261	2,600	5,547	2,970	3,563
20.	Tunnies	293	495	141	683	664	334	449	328	437	419	338
21.	<i>Sphyraena</i>	70	88	18	19	119	187	108	43	62	88	124
22.	<i>Mugil</i>	543	118	255	1,848	954	892	170	237	159	27	182
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—	—
24.	Soles	79	215	187	220	305	56	680	347	610	573	2,213
25.	a. Penaeid prawns	8,917	5,145	8,170	9,857	7,152	8,833	6,266	8,031	8,697	5,660	6,728
	b. Non penaeid prawns	288	437	669	2,842	3,523	2,275	5,109	1,532	3,117	4,346	1,607
	c. Lobsters	—	—	—	—	102	3	2	20	33	10	1
	d. Crabs & other crustaceans	95	279	364	934	605	329	719	477	1,109	1,413	1,800
26.	Cephalopods	114	67	61	165	151	242	408	297	523	470	512
27.	Miscellaneous	2,385	2,596	2,901	4,818	3,552	8,353	4,561	6,021	4,655	3,913	3,025
TOTAL		84,010	84,480	99,544	1,58,818	1,55,638	1,31,321	1,00,756	82,116	91,426	1,16,013	1,16,143

Table 9. Composition of marine fish landings in Tamil Nadu during 1971 to 1981 (in tonnes)

Sl.No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	16,913	12,960	12,844	23,025	20,614	19,039	18,327	15,121	12,393	15,442	13,242
2.	Eels	147	47	121	296	110	620	232	325	119	85	93
3.	Catfishes	7,219	5,353	9,861	10,322	7,469	5,033	15,205	5,252	5,617	4,047	3,792
4.	<i>Chirocentrus</i>	2,952	2,320	3,178	1,625	1,811	2,058	2,475	1,736	1,839	2,695	1,820
5.	a. Oil sardine	45	146	45	—	—	—	714	36	1,011	320	195
	b. Lesser sardines	23,562	21,051	26,059	15,430	35,610	25,169	26,259	21,050	33,289	29,940	24,448
	c. <i>Hilsa ilisha</i>	191	170	10	14	121	22	343	161	41	37	52
	d. Other <i>Hilsa</i>	2,804	2,088	1,349	681	1,158	2,331	5,784	4,166	2,761	3,084	3,516
	e. <i>Anchoviella</i>	5,162	4,378	9,105	10,745	10,873	7,869	13,388	7,447	11,061	13,126	8,357
	f. <i>Thrissocles</i>	4,968	5,278	4,821	4,645	3,127	8,362	3,008	4,719	5,542	5,048	6,465
	g. Other clupeoids	2,193	3,107	3,706	2,815	5,406	15,851	2,652	3,043	3,564	1,833	5,241
6.	a. <i>Harpodon nehereus</i>	13	48	235	—	1	—	14	—	1	6	3
	b. <i>Saurida & Saurus</i>	1,395	923	871	1,196	1,026	823	572	1,100	1,498	1,123	1,455
7.	<i>Hemirhamphus & Belone</i>	492	403	675	3,949	1,482	717	1,574	759	624	749	819
8.	Flying fish	8,375	1,290	6,221	726	1,657	1,232	526	1,092	1,599	1,106	2,460
9.	Perches	5,743	6,350	4,914	8,426	8,153	5,341	7,918	9,241	5,919	6,886	6,453
10.	Red mullets	1,268	1,311	1,010	1,959	1,566	626	832	1,963	1,448	1,079	1,116
11.	Polynemids	1,615	906	1,806	877	1,339	1,944	1,592	706	353	629	236
12.	Sciaenids	5,495	6,221	10,607	9,943	10,096	10,562	13,756	14,239	18,948	19,547	13,140
13.	Ribbon fish	10,897	10,498	9,625	8,369	17,782	19,054	4,594	28,664	21,040	7,862	7,605
14.	a. <i>Caranx</i>	8,486	7,109	5,624	5,188	6,225	7,082	6,120	3,104	7,022	5,405	1,281
	b. <i>Chorinemus</i>	1,343	1,045	843	1,541	1,090	646	1,465	971	844	1,111	608
	c. <i>Trachinotus</i>	11	—	—	2	—	28	73	84	182	38	—
	d. Other carangids	24	29	9	2	8	907	22	171	23	188	—
	e. <i>Coryphaena</i>	41	24	32	77	65	105	58	18	37	141	—
	f. <i>Elacate</i>	31	280	75	101	87	217	230	239	535	148	—
15.	a. <i>Leiognathus</i>	18,913	21,564	22,133	23,906	20,142	29,664	17,783	30,281	42,886	38,153	—
	b. <i>Gazza</i>	5	62	34	28	29	6	54	104	197	84	50,942
16.	<i>Lactarius</i>	640	1,348	2,823	722	1,822	775	740	840	1,323	938	818
17.	Pomfrets	834	461	1,705	720	1,303	822	628	789	877	1,306	670
18.	Mackerel	2,983	7,838	8,843	2,639	5,826	10,488	5,674	1,453	3,521	7,229	3,916
19.	Seer fish	5,032	6,010	5,763	5,178	4,100	3,784	6,424	4,700	5,228	7,179	5,431
20.	Tunnies	1,044	658	624	1,691	1,785	2,923	3,238	1,169	3,211	4,233	3,820
21.	<i>Sphyræna</i>	875	997	858	800	1,506	1,554	1,702	2,147	1,463	932	948
22.	<i>Mugil</i>	817	266	1,449	261	1,566	285	923	829	229	577	409
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—	—
24.	Soles	689	518	683	1,247	785	909	908	1,580	2,337	2,094	1,431
25.	a. Penaeid prawns	3,637	4,885	4,504	8,060	11,460	8,864	8,197	13,327	10,222	9,082	13,548
	b. Non penaeid prawns	62	148	1,285	46	573	169	159	585	897	946	704
	c. Lobsters	—	—	—	—	465	525	286	249	340	90	238
	d. Crabs & other crustaceans	6,059	9,518	7,719	9,752	13,896	16,413	11,018	9,290	5,883	6,174	9,485
26.	Cephalopods	389	248	426	955	2,953	1,451	1,375	1,042	1,903	1,472	1,687
27.	Miscellaneous	7,255	7,297	9,924	7,754	16,128	11,808	19,204	19,107	17,181	15,230	12,117
TOTAL		1,60,619	1,55,153	1,82,419	1,75,713	2,21,215	2,26,078	2,06,046	2,12,899	2,35,008	2,17,394	2,21,296

Table 10. Composition of marine fish landings in Pondicherry during 1971 to 1981 (in tonnes)

Sl.No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	848	492	322	186	129	165	352	199	222	435	387
2.	Eels	103	1	2	3	4	6	5	—	88	8	13
3.	Catfishes	360	72	122	65	55	66	137	168	51	78	102
4.	<i>Chirocentrus</i>	277	153	291	58	50	63	63	111	167	98	85
5.	a. Oil sardine	—	—	—	—	—	—	—	—	—	—	—
	b. Lesser sardines	1,807	724	500	1,203	1,046	1,839	1,156	1,184	1,998	2,736	1,342
	c. <i>Hilsa ilisha</i>	5	—	—	—	31	—	—	—	—	25	—
	d. Other <i>Hilsa</i>	159	93	157	173	277	121	43	108	12	53	129
	e. <i>Anchoviella</i>	697	439	695	692	412	178	548	521	346	287	507
	f. <i>Thrissocles</i>	338	442	619	519	337	565	405	258	429	387	520
	g. Other clupeoids	106	141	66	71	50	1	—	281	345	273	400
6.	a. <i>Harpodon nehereus</i>	—	—	—	—	—	—	—	—	—	—	—
	b. <i>Saurida & Saurus</i>	276	122	103	26	44	105	103	132	262	160	246
7.	<i>Hemirhamphus & Belone</i>	26	3	—	21	55	2	4	—	6	26	57
8.	Flying fish	492	42	18	110	142	165	3	480	854	3	614
9.	Perches	510	277	405	132	389	769	391	487	1,004	666	932
10.	Red mullets	132	66	121	76	100	77	32	109	203	150	155
11.	Polynemids	16	15	20	25	14	26	5	27	14	6	1
12.	Sciaenids	391	546	626	250	212	434	258	374	306	320	330
13.	Ribbon fish	96	402	434	236	314	428	143	139	129	179	217
14.	a. <i>Caranx</i>	1,004	311	227	472	610	501	490	218	537	479	162
	b. <i>Chorinemus</i>	22	—	—	2	—	2	5	33	27	2	32
	c. <i>Trachynotus</i>	—	—	—	—	—	—	—	—	—	2	—
	d. Other carangids	—	—	—	—	—	—	—	—	—	—	1,507
	e. <i>Coryphaena</i>	—	—	3	5	—	7	2	3	2	—	—
	f. <i>Elacate</i>	7	—	—	—	—	—	1	—	—	—	—
15.	a. <i>Leiognathus</i>	593	412	546	249	511	482	318	372	746	681	975
	b. <i>Gazza</i>	—	—	—	—	—	—	7	—	—	—	—
16.	<i>Lactarius</i>	53	17	2	12	30	121	175	—	11	29	44
17.	Pomfrets	48	67	82	24	13	44	53	50	35	188	123
18.	Mackerel	650	3,317	2,649	2,317	2,259	1,598	398	179	424	445	316
19.	Seer fish	76	25	46	68	23	28	34	41	105	85	101
20.	Tunnies	16	1	—	9	—	1	—	3	1	—	55
21.	<i>Sphyraena</i>	97	3	1	28	27	15	9	25	22	55	50
22.	<i>Mugil</i>	7	15	19	1	31	4	14	26	27	49	5
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—	—
24.	Soles	119	65	214	48	125	254	78	109	162	151	194
25.	a. Penaeid prawns	289	177	33	27	62	93	103	245	532	485	336
	b. Non penaeid prawns	1	5	8	2	2	—	2	71	72	42	53
	c. Lobsters	—	—	—	—	25	33	20	2	5	4	5
	d. Crabs & other crustaceans	178	408	194	201	260	516	296	251	242	172	236
26.	Cephalopods	52	22	20	28	58	211	62	36	50	40	44
27.	Miscellaneous	603	105	137	359	453	1,203	747	586	632	591	480
TOTAL		10,454	8,980	8,682	7,698	8,150	10,123	6,462	6,828	10,068	9,390	10,755

Table 11. Composition of marine fish landings in Kerala during 1971 to 1981 (in tonnes)

Sl.No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	4,889	6,986	8,852	10,338	10,292	7,308	5,796	9,302	6,954	6,803	4,871
2.	Eels	31	5	3	49	12	10	6	38	10	6	3
3.	Catfishes	15,189	12,636	17,438	33,526	32,603	12,743	7,947	9,125	11,328	13,936	9,562
4.	<i>Chirocentrus</i>	464	397	544	860	605	807	547	1,298	1,125	1,002	973
5.	a. Oil sardine	1,94,977	1,04,426	1,22,783	1,02,135	97,183	1,23,937	1,17,356	1,19,937	1,16,834	69,667	1,46,986
	b. Lesser sardines	11,403	6,790	62,421	31,335	33,652	34,305	20,754	11,713	15,914	11,017	7,629
	c. <i>Hilsa ilisha</i>	9	19	—	—	10	12	36	182	6	14	8
	d. Other <i>Hilsa</i>	6	3	39	33	—	—	14	69	36	21	15
	e. <i>Anchoviella</i>	10,842	10,672	8,940	19,463	11,432	9,987	10,105	21,203	6,552	7,772	4,293
	f. <i>Thrissocles</i>	2,349	2,001	1,663	1,321	1,638	2,732	1,648	1,898	1,789	2,241	634
	g. Other clupeoids	1,668	1,346	1,158	1,323	998	1,174	512	973	674	574	944
6.	a. <i>Harpodon nehereus</i>	1	43	45	18	—	—	—	21	1	—	—
	b. <i>Saurida & Saurus</i>	1,395	1,426	1,136	8,839	11,294	99	5,169	6,246	5,326	7,080	5,691
7.	<i>Hemirhamphus & Belone</i>	97	88	185	331	278	141	281	281	257	361	565
8.	Flying fish	2	—	1	2	—	1	—	—	—	—	16
9.	Perches	3,663	3,939	8,663	20,970	14,741	3,069	14,121	24,989	20,239	17,814	8,549
10.	Red mullets	1,573	2,960	1,537	3,881	23	2,577	240	171	127	1	33
11.	Polynemids	569	24	570	3	105	122	69	35	29	8	47
12.	Sciaenids	4,145	6,137	11,723	9,220	16,811	6,955	11,965	13,045	5,237	6,164	3,145
13.	Ribbon fish	17,380	10,459	23,897	30,192	15,175	7,687	7,440	24,207	25,718	12,937	7,066
14.	a. <i>Caranx</i>	4,952	14,848	14,283	5,260	7,190	10,478	15,673	7,197	12,339	4,399	1,743
	b. <i>Chorinemus</i>	49	817	48	72	135	265	540	148	128	145	318
	c. <i>Trachinotus</i>	6	2	—	—	6	—	7	19	—	—	—
	d. Other carangids	3	36	36	73	85	6	78	72	—	59	2,989
	e. <i>Coryphaena</i>	1	92	153	94	61	56	28	19	48	138	—
	f. <i>Elacate</i>	299	76	52	35	62	106	158	166	120	19	—
15.	a. <i>Leiognathus</i>	8,609	5,042	18,388	17,518	5,211	2,727	7,708	3,040	3,597	4,147	2,826
	b. <i>Gazza</i>	21	15	4	5	—	—	—	—	—	1	—
16.	<i>Lactarius</i>	2,991	3,034	6,663	2,904	983	468	823	1,533	253	861	879
17.	Pomfrets	2,416	1,932	1,809	1,500	1,181	799	3,712	1,614	1,737	907	1,373
18.	Mackerel	95,164	34,516	19,780	10,335	14,930	19,978	19,968	25,917	18,585	18,474	16,200
19.	Seer fish	2,800	1,386	1,690	4,909	4,065	5,936	3,250	3,354	6,275	3,763	3,330
21.	Tunnies	3,043	3,626	2,699	5,927	5,845	12,880	6,705	6,548	15,391	10,611	5,509
21.	<i>Sphyræna</i>	174	1,125	2,333	3,865	396	494	353	721	477	330	812
22.	<i>Mugil</i>	549	91	103	955	74	26	38	1	39	151	120
23.	Bregmaceros	—	—	—	—	—	—	—	—	—	—	—
24.	Soles	8,807	6,119	8,551	12,771	6,932	3,567	5,778	7,276	4,487	4,394	5,034
25.	a. Penaeid prawns	31,294	35,866	84,770	59,815	77,207	34,478	40,150	45,034	29,522	52,633	22,268
	b. Non penaeid prawns	1,519	711	981	1,014	755	55	174	394	75	1,742	160
	c. Lobsters	—	—	—	—	31	50	40	38	26	18	50
	d. Crabs & other crustaceans	523	158	1,781	2,886	1,797	1,316	4,621	2,176	7,643	7,286	2,998
26.	Cephalopods	473	350	339	2,175	3,342	872	4,973	6,516	2,976	4,244	2,376
27.	Miscellaneous	11,002	15,419	12,208	14,305	43,696	22,824	26,254	16,823	8,635	7,803	4,380
TOTAL		4,45,347	2,95,618	4,48,269	4,20,257	4,20,836	3,31,047	3,45,037	3,73,339	3,30,509	2,79,543	2,74,395

Table 12. Composition of marine fish landings in Karnataka during 1971 to 1981 (in tonnes)

Sl.No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	2,753	4,587	1,690	2,007	1,726	1,489	3,238	2,051	2,531	2,910	4,065
2.	Eels	—	8	8	8	81	—	3	8	1	131	—
3.	Catfishes	1,331	3,184	2,372	2,011	3,222	4,279	5,162	2,831	9,920	5,354	7,503
4.	<i>Chirocentrus</i>	176	343	219	684	412	184	717	247	258	171	118
5.	Oil sardine	11,836	15,610	15,495	20,784	52,701	41,451	31,145	46,707	33,080	42,727	65,614
a.	Lesser sardines	491	1,563	1,164	228	775	641	180	2,572	4,753	4,135	5,328
b.	<i>Hilsa ilisha</i>	18	785	50	459	1	—	44	9	10	8	1
c.	Other <i>Hilsa</i>	14	5	33	1	10	30	113	30	52	25	331
d.	<i>Anchoviella</i>	97	124	235	51	10	54	174	443	1,721	5,621	5,959
e.	<i>Thriposocles</i>	180	575	263	1,079	344	900	831	919	441	850	296
f.	Other clupeoids	365	698	690	957	568	457	1,677	872	2,278	1,088	951
6.	<i>Harpodon nehereus</i>	10	1	17	5	2	7	4	4	5	15	—
a.	<i>Saurida & Saurus</i>	351	18	—	3	75	187	385	92	155	508	333
b.	<i>Hemirhamphus & Belone</i>	38	27	18	5	36	87	57	41	49	180	148
7.	Flying fish	—	1	—	—	—	—	—	—	—	55	—
8.	Perches	132	177	122	203	727	454	1,489	174	181	1,069	399
9.	Red mullets	9	65	3	—	3	145	19	31	30	38	—
10.	Polynemids	1	69	8	16	3	—	3	3	2	—	—
11.	Sciaenids	1,313	2,114	1,013	3,208	1,853	3,216	2,762	1,728	2,348	3,500	2,295
12.	Ribbon fish	330	748	138	303	219	583	237	404	1,193	1,499	235
13.	<i>Caranx</i>	440	516	1,226	771	746	656	760	202	1,103	4,507	1,012
a.	<i>Chorinemus</i>	5	286	12	72	55	80	506	13	59	67	148
b.	<i>Trachinotus</i>	—	—	—	115	49	—	—	3	13	—	—
c.	Other carangids	—	—	—	11	92	—	41	43	1	232	2,429
d.	<i>Coryphaena</i>	—	—	—	—	23	—	—	—	—	—	—
e.	<i>Elacate</i>	8	3	220	54	31	32	1	55	34	3	—
f.	<i>Leiognathus</i>	1,321	795	2,659	2,058	1,240	4,086	1,631	4,241	1,565	4,671	1,638
15.	<i>Gazza</i>	—	—	—	—	—	—	—	—	—	42	—
a.	<i>Lactarius</i>	487	899	1,740	1,546	495	216	101	198	433	998	515
b.	Pomfrets	866	618	1,153	303	213	438	249	1,957	250	696	419
16.	Mackerel	64,047	32,249	35,468	9,696	12,469	22,455	26,214	50,704	40,084	19,634	19,766
17.	Seer fish	2,506	2,498	1,313	1,532	776	1,341	1,831	1,463	1,645	1,941	2,267
18.	Tunnies	515	134	124	394	212	576	622	614	1,717	952	2,517
19.	<i>Sphyræna</i>	21	32	130	26	14	9	3	276	41	84	75
20.	<i>Mugil</i>	—	12	33	—	8	6	—	1	—	39	1
21.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—	—
22.	Soles	656	1,594	626	2,377	373	637	985	1,820	874	782	545
23.	Penaeid prawns	4,420	8,058	8,235	12,695	3,074	2,594	3,335	8,422	4,654	3,098	4,122
a.	Non penaeid prawns	—	17	1	1	—	—	—	18	6	128	4
b.	Lobsters	—	—	—	—	12	8	4	39	15	110	—
c.	Crabs & other crustaceans	1,763	346	934	1,742	2,540	156	207	741	2,740	2,765	9,368
24.	Cephalopods	7	25	19	20	175	3,067	965	1,346	68	122	266
25.	Miscellaneous	7,217	13,892	14,053	10,838	2,129	4,762	11,457	21,538	12,074	4,567	14,681
TOTAL		1,03,724	92,676	91,484	76,263	87,494	95,283	97,152	1,52,860	1,26,384	1,15,322	1,53,349

perches, ribbon fish, tunnies, catfish, white bait, lesser sardines and croakers, the reduction being 9,300, 5,900, 5,100, 4,400, 3,500, 3,400 and 3,000 t respectively. Table 11 shows the species composition of marine fish landings in Kerala for the period 1971 to 1981.

Karnataka

In Karnataka, the total marine fish landings showed a substantial increase of about 38,000 t (33%) during 1981 as compared to 1980. The catch of oil sardine increased significantly by about 23,000 t contributing substantially to the increase in the total catch of the state. The landings of catfishes, tunnies, lesser sardines and penaeid prawns also increased by about 2,100, 1,600, 1,200 and 1,000 t respectively. The catch of silverbellies, ribbon fish, croakers and perches, however, showed a decline of about 3,000, 1,300, 1,200 and 700 t respectively. The specieswise composition

of total marine fish production in Karnataka during the years 1971 to 1981 is given in Table 12.

Goa

An increase of about 10,000 t (41%) in the total landings was noticed during 1981 as compared to 1980. While the landings of oil sardine, mackerel, catfishes and perches increased by about 5,200, 1,500, 1,100 and 900 t respectively, ribbon fish catch showed a decline of about 400 t. Table 13 shows the details of specieswise composition of total marine fish landings in Goa during the years 1971 to 1981.

Maharashtra

The total marine fish catch in Maharashtra during 1981 was estimated at 2.73 lakh t. The important fisheries of the state viz. Bombay duck, non-penaeid prawns, penaeid prawns, croakers, pomfrets and

Table 13. Composition of marine fish landings in Goa during 1971 to 1981 (in tonnes)

Sl. No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	229	299	199	387	572	1,038	625	863	1,280	894	1,050
2.	Eels	—	—	—	—	64	1	—	55	35	6	19
3.	Catfishes	84	281	230	348	1,367	834	918	1,356	846	1,151	2,211
4.	<i>Chirocentrus</i>	13	21	34	78	32	54	32	78	122	124	181
5.	a. Oil sardine	1,994	3,793	3,426	2,106	7,526	1,385	807	1,398	3,030	2,367	7,609
	b. Lesser sardines	72	2,165	1,272	1,172	3,914	11,100	4,066	5,151	2,471	1,798	2,296
	c. <i>Hilsa ilisha</i>	—	—	—	—	—	—	—	3	2	8	2
	d. Other <i>Hilsa</i>	—	—	—	—	—	—	1	2	14	14	26
	e. <i>Anchoviella</i>	44	123	146	—	31	—	9	5	—	249	108
	f. <i>Thripos</i>	—	—	—	81	123	290	293	1,308	911	779	593
	g. Other clupeoids	260	8	120	276	419	667	520	645	378	302	341
6.	a. <i>Harporodon nehereus</i>	2	—	—	—	10	46	20	27	9	12	1
	b. <i>Saurida & Saurus</i>	—	—	—	1	151	25	239	279	104	199	707
7.	<i>Hemirhamphus & Belone</i>	—	—	—	—	—	8	13	56	13	6	2
8.	Flying fish	—	—	—	—	—	—	—	2	1	2	—
9.	Perches	—	26	4	9	45	310	505	781	203	269	1,183
10.	Red mullets	—	—	6	34	77	—	—	—	—	15	60
11.	Polynemids	15	13	13	44	63	—	1	1	—	10	14
12.	Sciaenids	106	280	171	883	3,048	2,640	2,779	3,256	1,492	1,530	1,610
13.	Ribbon fish	23	12	48	111	355	1,123	449	504	548	1,089	684
14.	a. <i>Caranx</i>	—	4	2	952	1,078	794	1,149	1,803	1,343	884	113
	b. <i>Chorinemus</i>	—	—	—	4	—	100	44	56	140	71	44
	c. <i>Trachinotus</i>	—	—	—	—	—	3	—	—	—	—	—
	d. Other carangids	—	—	—	—	—	—	—	—	—	—	—
	e. <i>Coryphaena</i>	—	—	—	—	—	—	—	—	—	—	565
	f. <i>Elacate</i>	—	—	—	—	—	—	23	52	190	190	—
15.	a. <i>Lelognathus</i>	156	287	152	1,420	604	896	458	704	881	1,727	2,075
	b. <i>Gazza</i>	—	—	—	—	—	3	—	—	—	—	—
16.	<i>Lactarius</i>	5	113	170	373	189	338	375	443	291	614	820
17.	Pomfrets	24	31	24	96	102	100	296	367	138	257	123
18.	Mackerel	35,258	19,999	7,616	7,905	6,779	6,448	7,661	3,371	4,391	2,446	3,939
19.	Seer fish	108	67	66	273	222	501	213	691	1,101	735	643
20.	Tunnies	—	—	—	—	2	23	107	300	742	356	188
21.	<i>Sphyraena</i>	—	—	—	—	—	—	—	7	7	171	38
22.	<i>Mugil</i>	—	18	—	5	124	4	46	32	14	11	206
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—	—
24.	Soles	64	221	95	196	16	137	335	417	893	1,311	727
25.	a. Penaeid prawns	279	561	785	1,448	1,762	4,643	1,436	1,647	1,594	1,853	2,237
	b. Non penaeid prawns	—	—	—	—	—	—	24	26	—	—	—
	c. Lobsters	—	—	—	—	6	3	7	13	6	18	9
	d. Crabs & other crustaceans	11	7	20	86	227	971	637	531	1,379	1,933	2,696
26.	Cephalopods	—	5	—	14	96	142	164	124	173	210	94
27.	Miscellaneous	1,233	1,770	1,141	1,232	166	341	479	757	646	879	1,284
TOTAL		39,980	30,104	15,740	19,534	29,170	34,968	24,731	27,111	25,388	24,490	34,498

Table 14. Composition of marine fish landings in Maharashtra during 1971 to 1981 (in tonnes)

Sl.No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	4,470	5,937	7,624	6,538	8,167	7,089	7,746	10,072	12,516	7,752	9,675
2.	Eels	2,864	3,190	2,026	674	1,101	4,168	3,849	5,384	4,033	3,154	2,290
3.	Catfishes	18,052	12,821	9,226	7,240	8,236	9,522	8,318	11,081	10,433	8,653	11,045
4.	<i>Chirocentrus</i>	1,207	1,268	2,152	1,135	2,936	2,409	2,634	3,059	1,721	2,039	2,918
5.	a. Oil sardine	407	3,593	2,483	1,083	1,699	2,377	108	—	16	663	622
	b. Lesser sardines	1,864	2,877	3,077	1,238	3,103	1,963	1,024	868	927	1,363	420
	c. <i>Hilsa ilisha</i>	22	13	89	4	16	154	352	1,558	1,071	1,017	530
	d. Other <i>Hilsa</i>	1,121	1,399	849	800	1,152	661	978	466	429	607	2,201
	e. <i>Anchoviella</i>	990	209	573	272	533	209	269	340	382	78	55
	f. <i>Thrissoles</i>	1,574	1,236	3,008	869	927	1,276	1,679	1,821	2,832	1,271	944
	g. Other clupeoids	8,781	9,484	15,018	13,892	21,172	16,944	22,782	13,608	15,675	16,897	20,314
6.	a. <i>Harpodon nehereus</i>	33,993	21,246	34,179	29,989	51,645	49,470	50,803	68,781	59,667	57,393	82,136
	b. <i>Saurida & Saurus</i>	148	577	987	637	218	1,089	1,135	1,815	2,374	1,057	1,308
7.	<i>Hemirhamphus & Belone</i>	127	108	117	33	52	30	32	51	126	42	46
8.	Flying fish	49	13	1	2	2	—	—	5	1	—	—
9.	Perches	853	1,379	3,195	2,111	2,484	1,460	2,973	6,951	3,225	3,712	2,617
10.	Red mullets	514	1,133	987	701	103	497	171	344	859	461	982
11.	Polynemids	987	2,174	2,333	1,797	1,628	4,125	862	1,909	1,600	1,976	711
12.	Sciaenids	13,339	11,299	14,319	17,453	20,576	19,781	17,086	17,202	21,366	13,956	17,475
13.	Ribbon fish	6,562	8,544	13,363	9,585	9,435	10,052	6,338	10,400	10,983	11,550	8,048
14.	a. <i>Caranx</i>	2,280	1,371	804	2,535	2,240	1,179	1,167	1,899	2,314	1,315	135
	b. <i>Chorinemus</i>	87	171	445	179	145	121	230	300	416	357	360
	c. <i>Trachynotus</i>	—	—	189	5	3	3	—	—	—	—	—
	d. Other carangids	134	29	84	4	—	654	—	50	385	369	1,014
	e. <i>Coryphaena</i>	—	—	4	9	11	2	—	—	51	20	—
	f. <i>Elacate</i>	—	6	126	21	15	—	—	—	—	—	—
15.	a. <i>Leiognathus</i>	231	268	955	473	200	—	358	323	724	406	129
	b. <i>Gazza</i>	126	—	—	293	293	—	—	—	—	—	—
16.	<i>Lactarius</i>	288	322	760	431	431	643	247	836	430	450	500
17.	Pomfrets	5,787	6,858	8,209	6,683	8,351	17,979	17,295	13,050	14,941	10,081	17,144
18.	Mackerel	4,650	5,507	2,368	2,587	1,860	1,944	875	787	1,455	288	289
19.	Seer fish	1,509	2,089	1,769	1,434	1,850	2,116	3,220	2,915	4,027	3,219	2,814
20.	Tunnies	292	294	743	286	274	463	312	1,939	1,772	1,674	1,248
21.	<i>Sphyraena</i>	—	54	21	21	17	50	—	388	82	33	16
22.	<i>Mugil</i>	72	55	65	22	30	191	48	102	38	24	35
23.	<i>Bregmaceros</i>	4,345	5,488	4,213	1,806	1,043	380	30	21	276	159	13
24.	Soles	904	553	2,737	502	487	1,553	1,245	1,676	2,304	1,797	1,784
25.	a. Penaeid prawns	18,974	20,173	16,894	14,712	24,653	40,772	26,675	41,091	45,638	23,433	21,717
	b. Non penaeid prawns	74,637	83,952	63,455	50,025	69,012	63,702	66,978	44,255	56,208	47,309	52,854
	c. Lobsters	—	—	—	—	245	419	434	607	499	225	388
	d. Crabs & other crustaceans	979	487	687	973	550	51	93	148	519	297	496
26.	Cephalopods	368	282	501	298	482	2,488	596	4,557	3,959	1,191	1,755
27.	Miscellaneous	1,718	3,543	6,061	5,609	9,242	25,615	15,510	13,585	7,052	5,475	5,559
TOTAL		2,15,305	2,20,002	2,26,696	1,84,961	2,56,619	2,93,601	2,64,452	2,84,244	2,93,326	2,31,763	2,72,587

Table 15. Composition of marine fish landings in Gujarat during 1971 to 1981 (in tonnes)

Sl.No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	6,249	6,572	3,995	10,227	11,930	7,896	17,565	11,511	4,926	14,558	13,433
2.	Eels	796	1,124	1,396	2,446	2,497	3,283	8,463	1,886	2,622	8,403	2,179
3.	Catfishes	3,570	3,905	2,071	5,548	2,514	2,140	8,958	4,159	5,320	5,235	10,370
4.	<i>Chirocentrus</i>	2,363	2,435	1,295	1,722	2,325	2,155	3,327	1,869	1,970	3,792	2,986
5.	a. Oil sardine	—	—	—	—	—	—	—	—	—	—	—
	b. Lesser sardines	43	368	—	—	—	8	—	—	—	—	—
	c. <i>Hilsa ilisha</i>	624	165	48	258	3,394	1,098	329	49	231	56	17
	d. Other <i>Hilsa</i>	5,405	5,536	6,500	3,292	3,846	3,367	5,547	5,703	3,837	3,965	10,283
	e. <i>Anchoviella</i>	—	9	—	—	130	—	—	—	—	—	—
	f. <i>Thrissoles</i>	217	113	174	239	117	269	105	608	686	913	1,274
	g. Other clupeoids	3,372	3,983	1,995	11,557	13,192	11,098	9,458	13,282	5,552	8,538	7,067
6.	a. <i>Harpodon nehereus</i>	35,680	29,011	27,664	29,675	44,554	34,998	32,289	53,870	63,984	36,671	54,114
	b. <i>Saurida & Saurus</i>	—	1,169	563	1,546	1,267	2,797	42	82	6	85	110
7.	<i>Hemirhamphus & Belone</i>	1	5	2	5	3	101	104	1	185	6	—
8.	Flying fish	—	—	—	127	—	—	—	—	—	—	—
9.	Perches	383	1,394	2,403	2,462	3,261	4,641	1,213	4,174	973	2,454	4,832
10.	Red mullets	—	—	1	1	—	680	779	2	8	—	294
11.	Polynemids	2,391	1,626	2,969	5,331	8,832	6,230	268	339	736	667	1,585
12.	Sciaenids	3,433	3,806	40,324	24,275	45,781	28,698	39,968	33,968	28,230	31,625	35,242
13.	Ribbon fish	1,145	1,447	938	1,849	1,097	12,341	14,180	6,944	4,491	10,858	8,327
14.	a. <i>Caranx</i>	771	229	242	1,068	1,012	1,642	1,002	270	510	461	757
	b. <i>Chorinemus</i>	—	7	251	95	—	14	401	320	466	1,022	2,764
	c. <i>Trachynotus</i>	—	—	—	—	—	—	—	—	—	—	—
	d. Other carangids	128	214	—	—	14	—	—	—	—	—	—
	e. <i>Coryphaena</i>	—	—	—	—	—	—	—	—	—	—	89
	f. <i>Elacate</i>	—	—	—	—	—	14	—	—	—	—	—
15.	a. <i>Lutognathus</i>	82	—	—	2	1	908	—	—	—	—	—
	b. <i>Gazza</i>	—	—	—	—	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	—	421	765	987	5,379	7,765	7,349	3,360	783	2,520	3,769
17.	Pomfrets	6,781	4,234	4,249	8,029	5,612	2,116	9,174	15,141	9,319	12,587	19,169
18.	Mackerel	1	—	—	—	—	—	—	—	35	112	—
19.	Seer fish	2,524	2,850	4,110	686	1,879	1,634	2,022	3,734	2,682	4,180	5,536
20.	Tunnies	1	1	268	579	546	734	332	451	442	277	1,600
21.	<i>Sphyræna</i>	—	36	29	54	26	9	154	—	—	—	1
22.	<i>Mugil</i>	1,674	847	1,116	1,291	600	1,097	900	1,264	751	1,034	1,118
23.	<i>Bregmaceros</i>	—	—	—	66	—	—	—	163	362	757	451
24.	Soles	54	392	1,525	1,456	2,991	2,969	729	268	411	2,459	3,885
25.	a. Penaeid prawns	2,873	2,013	10,550	5,970	13,395	11,497	8,861	7,938	8,606	14,481	10,985
	b. Non penaeid prawns	141	218	70	149	2,386	7,778	1,260	3,096	3,347	4,109	4,742
	c. Lobsters	—	—	—	39	2,105	1,491	424	339	211	204	786
	d. Crabs & other crustaceans	3	393	749	5	10	224	2,471	584	783	4,967	16,549
26.	Cephalopods	—	3	1	7	611	2,286	1,439	1,959	5,351	3,471	2,743
27.	Miscellaneous	1,454	1,320	5,700	24,266	12,468	7,316	10,525	24,595	33,496	23,027	7,453
TOTAL		82,159	75,846	1,21,963	1,45,309	1,93,775	1,71,294	1,89,638	2,01,929	1,91,312	2,03,494	2,34,510

catfishes landed about 30, 20, 8, 6, 6, and 4 per cent respectively of the total catch (Table 4).

Gujarat

In Gujarat, the total marine fish landings increased by about 31,000 t (15%) during 1981 as compared to 1980. Bombay duck, the major fishery of this state, showed an increase in the catch by about 17,400 t. The other species that showed increase in their landings were other crustaceans, pomfrets, catfishes, croakers, perches and carangids, the improvement being 11,600, 6,600, 5,100, 3,600, 2,400 and 2,100 t respectively. The catch of eels, penaeid prawns and ribbon fish showed a decline of about 6,200, 3,500 and 2,500 t respectively. Table 15 shows the specieswise composition of total marine fish landings in Gujarat for the years 1971 to 1981.

Andamans

A marginal increase of about 60 t (3%) in the total catch was noticed during 1981 as compared to 1980. While catches of silverbellies and whitebait increased by 170 and 90 t respectively, the catch of perches showed a decline of about 110 t. The specieswise composition of total marine fish catch in Andamans for the years 1971 to 1981 is shown in Table 16.

Lakshadweep

The total marine fish catch in Lakshadweep showed a marginal increase of about 400 t (13%) during 1981. This is mainly due to higher landings of tunnies which showed an increase of about 500 t. Elasmobranchs and perches, however, showed a decline of about 100 and 60 t respectively. Table 17 shows the specieswise

Table 16. Composition of marine fish landings in Andamans during 1971 to 1981 (in tonnes)

Sl.No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	22	18	33	27	48	72	90	89	88	56	35
2.	Eels	—	—	—	—	—	1	—	—	—	—	—
3.	Catfishes	14	15	8	14	15	19	28	33	55	32	22
4.	<i>Chirocentrus</i>	11	13	5	18	35	33	38	40	45	25	25
5.	a. Oil sardine	—	—	—	—	—	—	—	—	—	—	—
	b. Lesser sardines	48	62	67	55	66	86	86	97	132	243	263
	c. <i>Hilsa ilisha</i>	—	—	—	—	—	—	—	—	—	—	—
	d. Other <i>Hilsa</i>	6	11	5	7	13	28	25	31	42	25	26
	e. <i>Anchoviella</i>	36	67	67	53	79	118	103	92	119	99	185
	f. <i>Thrissoles</i>	—	—	—	—	—	—	—	—	—	—	—
	g. Other clupeoids	9	12	5	18	9	—	11	18	33	29	—
6.	a. <i>Harpodon nehereus</i>	—	—	—	—	—	—	—	—	—	—	—
	b. <i>Saurida & Saurus</i>	—	—	—	—	—	—	—	—	—	—	—
7.	<i>Hemirhamphus & Belone</i>	17	13	10	9	16	35	53	61	88	41	17
8.	Flying fish	—	—	—	—	—	—	—	—	—	—	3
9.	Perches	79	87	103	114	157	142	196	234	239	302	192
10.	Red mullets	—	—	—	—	—	2	4	—	—	—	—
11.	Polynemids	—	—	—	—	—	—	—	—	—	—	—
12.	Sciaenids	—	—	—	—	—	5	—	—	—	—	—
13.	Ribbon fish	—	—	—	—	—	—	—	1	3	—	24
14.	a. <i>Caranx</i>	64	87	106	81	108	125	134	133	134	147	196
	b. <i>Chorinemus</i>	—	—	—	—	—	—	—	—	—	—	—
	c. <i>Trachynotus</i>	—	—	—	—	—	—	—	—	—	—	—
	d. Other carangids	—	—	—	—	—	—	—	—	—	—	—
	e. <i>Coryphaena</i>	—	—	—	—	—	—	—	—	—	—	—
	f. <i>Elacate</i>	—	—	—	—	—	—	—	—	—	—	—
15.	a. <i>Leiognathus</i>	41	54	50	47	80	117	97	89	78	102	275
	b. <i>Gazza</i>	—	—	—	—	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	—	—	—	—	—	—	—	—	—	—	—
17.	Pomfrets	10	7	6	11	14	30	30	25	29	15	6
18.	Mackerel	22	47	100	38	115	77	111	106	92	183	156
19.	Seer fish	46	75	91	63	85	93	119	127	138	117	149
20.	Tunnies	12	9	13	7	9	13	37	57	57	55	42
21.	<i>Sphyræna</i>	18	18	13	26	25	49	76	80	95	67	40
22.	<i>Mugil</i>	52	69	80	74	84	101	130	131	121	117	78
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—	—
24.	Soles	—	—	—	—	—	—	—	—	—	—	—
25.	a. Penaeid prawns	12	12	8	28	28	39	45	38	64	54	26
	b. Non penaeid prawns	—	—	—	—	—	—	—	—	—	—	—
	c. Lobsters	—	—	—	—	—	—	—	—	—	—	1
	d. Other crustaceans	—	—	—	—	—	—	—	—	—	—	14
26.	Cephalopods	—	—	—	—	—	—	—	—	—	—	—
27.	Miscellaneous	50	104	84	230	118	149	119	97	69	94	87
TOTAL		569	780	854	920	1,104	1,334	1,532	1,579	1,721	1,803	1,862

composition of total marine fish catch in Lakshadweep during 1971 to 1981.

Species composition

Some changes have been effected in the specieswise presentation of catch data from 1981 onwards (Table 2). The estimates of marine fish catch were classified under 27 groups till 1980. This year the revision of these groups was done with a view to bring in the related genera/species of fishes under the relevant headings. For example *Chirocentrus* (wolf herring) has been brought under the broad category of clupeoids under which also fall oil sardine, lesser sardines, hilsa shad, other shads, anchovies and others. Under some groups, further categorisation was done on the basis of their commercial importance. For instance, the pomfrets have been categorised into black, silver and chinese

pomfrets. Because of their potential importance billfishes, hitherto falling under miscellaneous, have been grouped separately. *Trachynotus*, *Coryphaena* and *Elacate* have been brought under other carangids and similarly *Gazza* has been brought under silverbellies. Popular names have been given for all broad groupings and wherever changes in the names of fishes have been effected, the corresponding names hitherto followed are shown in brackets.

Major groups of fishes

From Table 2 it is noticed that oil sardine accounted for 2,21,026 t forming about 16% of the total all India catch during 1981. The other major groups of species in the order of abundance in their catch are Bombay duck (1,37,790 t, 10.0%), penaeid prawns (83,539 t, 6.1%), sciaenids (82,686 t, 6.0%), silverbellies (69,449 t,

Table 17. Composition of marine fish landings in Lakshadweep during 1971 to 1981 (in tonnes)

Sl.No.	Name of fish	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
1.	Elasmobranchs	120	157	171	253	325	354	296	198	364	284	211
2.	Eels	—	—	—	—	—	—	—	—	—	—	—
3.	Catfishes	—	—	—	—	1	—	—	—	—	—	—
4.	<i>Chirocentrus</i>	—	—	—	—	—	—	—	—	—	—	—
5.	a. Oil sardine	—	—	—	—	—	—	—	—	—	—	—
	b. Lesser sardines	—	—	—	—	—	—	—	—	—	—	—
	c. <i>Hilsa ilisha</i>	—	—	—	—	—	—	—	—	—	—	—
	d. Other <i>Hilsa</i>	—	—	—	—	—	—	—	—	—	—	—
	e. <i>Anchoiella</i>	—	—	—	—	—	—	—	—	—	—	—
	f. <i>Thriposocles</i>	—	—	—	—	—	—	—	—	—	—	—
	g. Other clupeoids	—	—	—	—	—	—	—	—	—	—	—
6.	a. <i>Harpodon nehereus</i>	—	—	—	—	—	—	—	—	—	—	—
	b. <i>Saurida</i> & <i>Saurus</i>	—	—	—	—	—	—	—	—	—	—	—
7.	<i>Hemirhamphus</i> & <i>Belone</i>	9	19	99	27	29	33	58	144	101	99	113
8.	Flying fish	14	17	42	43	30	41	30	33	16	29	16
9.	Perches	43	83	130	159	186	193	211	163	203	376	315
10.	Red mullets	8	12	36	32	34	58	29	27	27	27	25
11.	Polynemids	—	—	—	—	—	—	—	—	—	—	—
12.	Sciaenids	—	—	—	—	2	—	—	—	—	—	—
13.	Ribbon fish	—	—	—	—	—	—	—	—	—	—	—
14.	a. <i>Caranx</i>	20	30	63	61	61	94	65	60	58	80	105
	b. <i>Chorinemus</i>	—	—	—	—	—	—	—	—	—	—	—
	c. <i>Trachynotus</i>	—	—	—	—	—	—	—	—	—	—	—
	d. Other carangids	—	—	—	—	—	—	—	—	—	—	—
	e. <i>Coryphaena</i>	—	—	—	—	—	—	—	—	—	—	—
	f. <i>Elacate</i>	—	—	—	—	—	—	—	—	—	—	—
15.	a. <i>Leiognathus</i>	—	—	—	—	5	—	—	—	—	—	—
	b. <i>Gazza</i>	—	—	—	—	—	—	—	—	—	—	—
16.	<i>Lactarius</i>	—	—	—	—	—	—	—	—	—	—	—
17.	Pomfrets	—	—	—	—	—	—	—	—	—	—	—
18.	Mackerel	—	—	—	—	—	—	—	—	—	—	—
19.	Seer fish	48	51	29	91	66	87	41	41	24	21	50
20.	Tunnies	774	514	1,020	1,254	1,932	1,291	1,166	1,875	2,794	1,760	2,236
21.	<i>Sphyraena</i>	7	8	11	18	17	20	15	18	11	14	12
22.	<i>Mugil</i>	—	—	—	—	—	—	—	—	—	—	—
23.	<i>Bregmaceros</i>	—	—	—	—	—	—	—	—	—	—	—
24.	Soles	—	—	—	—	—	—	—	—	—	—	—
25.	a. Penaeid prawns	—	—	—	—	—	—	—	—	—	—	—
	b. Non penaeid prawns	—	—	—	—	—	—	—	—	—	—	—
	c. Lobsters	—	—	—	—	—	—	—	—	—	—	—
	d. Other crustaceans	—	—	—	—	—	—	—	—	—	—	—
26.	Cephalopods	13	17	20	15	19	40	23	20	15	13	14
27.	Miscellaneous	134	172	232	279	224	361	281	201	233	206	203
TOTAL		1,190	1,080	1,853	2,232	2,931	2,572	2,315	2,780	3,846	2,909	3,300

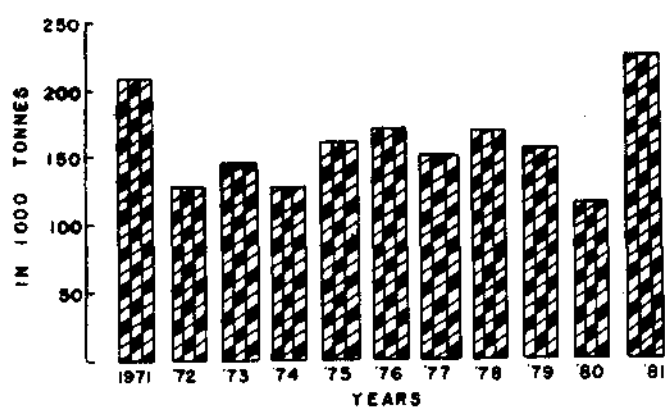


Fig. 2. Landings of oil sardine during 1971 to 1981.

5.0%), lesser sardines (61,980 t, 4.5%), non-penaeid prawns (61,430 t, 4.5%), cat fishes (59,390 t, 4.3%), elasmobranchs (56,008 t, 4.1%), pomfrets (48,728 t, 3.5%) and mackerel (48,660 t, 3.5%).

Oil sardine

During 1981, the oil sardine landings showed an increase of about 1,05,000 t (91%) as compared to 1980. Both Kerala and Karnataka landed substantial quantities contributing to the total all India oil sardine catch, their individual share being 66% and 30% respectively. The oil sardine landings during 1971 to 1981 showed wide fluctuations (Table 4 and Fig. 2). The maximum and minimum landings were recorded in 1981 and 1980 respectively.

Bombay duck

The Bombay duck catch during 1981 increased by about 42,000 t (44%). Higher landings in the states of Maharashtra and Gujarat accounted for the significant increase in the total catch of Bombay duck in India. While Maharashtra showed 59%, Gujarat recorded 39% of the country's total catch in Bombay duck. Wide fluctuations in the total catch of Bombay duck were seen during 1971 to 1981 (Table 4 and Fig. 3). The highest and the lowest catch were recorded in 1981 and 1972 respectively.

Penaeid prawns

A decline to the extent of about 28,000 t (25%) was noticed in the total catch of penaeid prawns during 1981 as compared to 1980. This decline was mainly brought about by a sharp fall in Kerala, particularly in Sakthikulangara area where the fall in the catch was to the extent of about 27,000 t. In Gujarat and Maharashtra also there was a decline to the tune of

about 3,500 and 1,700 t respectively in 1981 as compared to 1980. However, in Tamil Nadu, Andhra Pradesh and Karnataka the landings increased by about 4,500, 1,100 and 1,100 t respectively. Table 4 and Fig. 4 show year to year fluctuations of penaeid prawn landings in India from 1971 to 1981. While the maximum catch was recorded in 1975, the minimum was seen in 1971, the respective figures being 1.42 lakhs and 0.72 lakh t.

Sciaenids

The landings of sciaenids during 1981 showed a decline of about 6,700 t (7%) as compared to 1980. The states of Tamil Nadu, Kerala and Andhra Pradesh, recorded lesser landings to the extent of about 6,400,

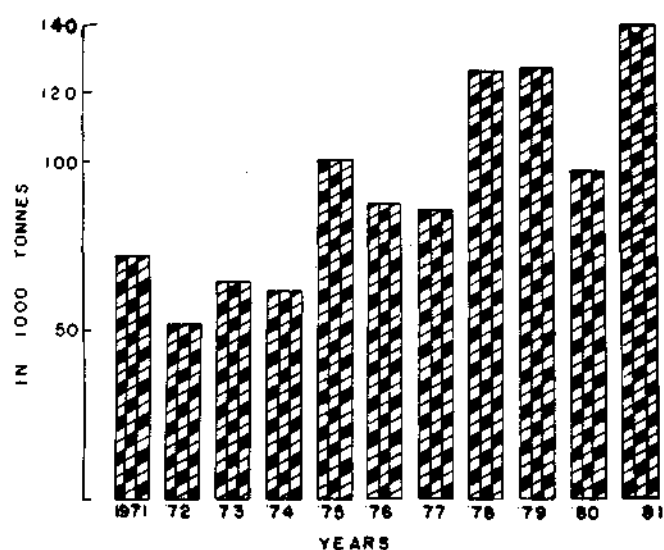


Fig. 3. Landings of Bombay duck (*Harpodon nehereus*) during 1971 to 1981.

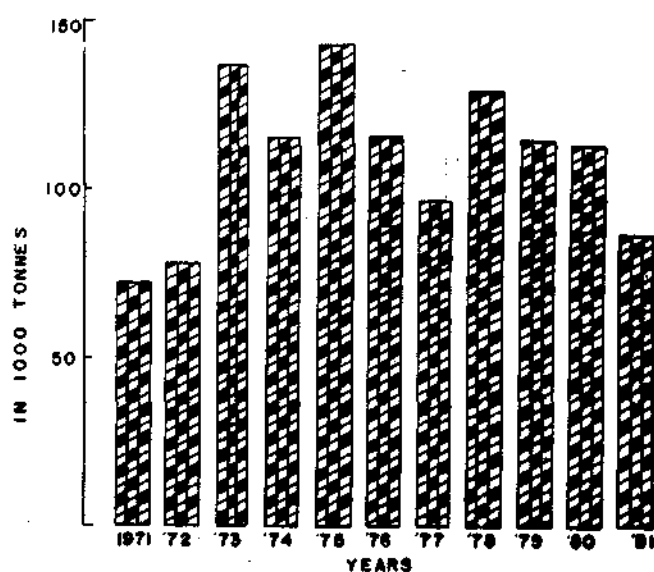


Fig. 4. Landings of penaeid prawns during 1971 to 1981.

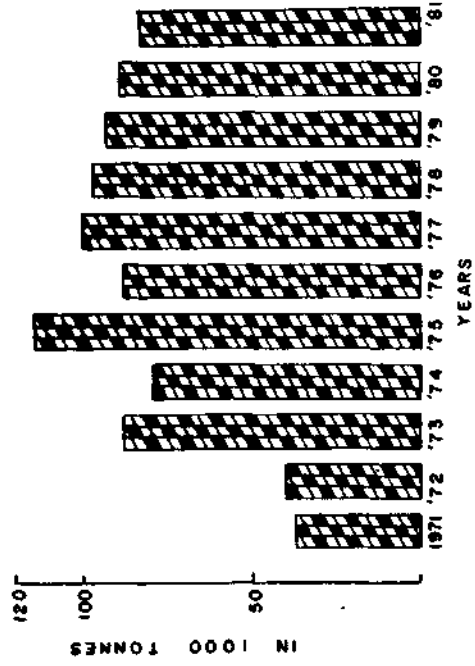


Fig. 5. Landings of sciaenids during 1971 to 1981

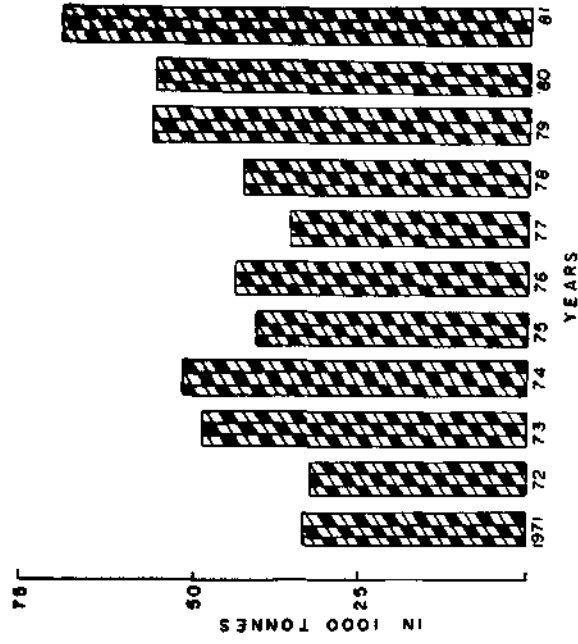


Fig. 6. Landings of silverbellies during 1971 to 1981

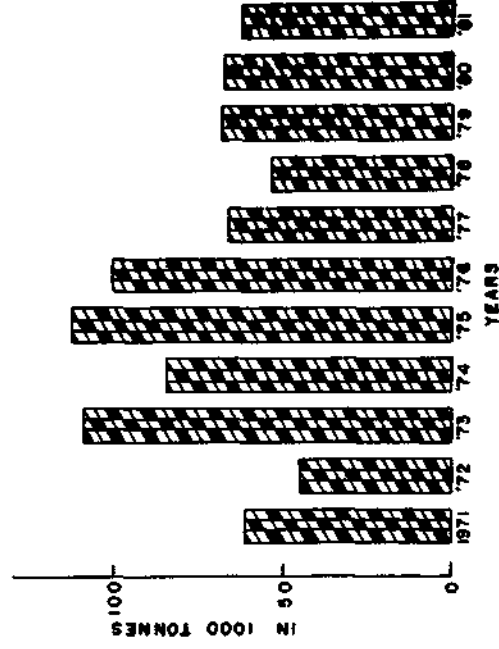


Fig. 7. Landings of lesser sardines during 1971 to 1981

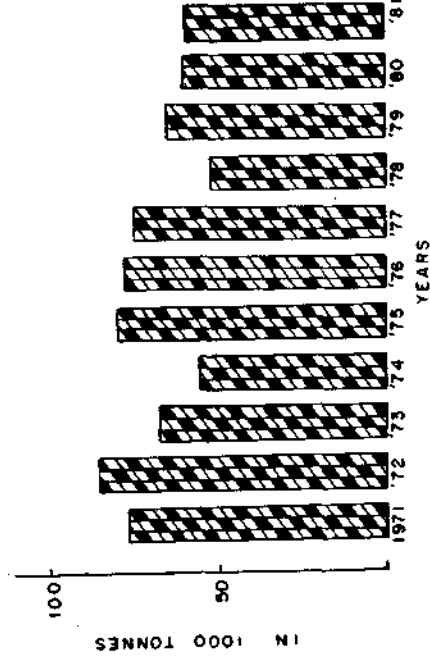


Fig. 8. Landings of non-petaeid prawns during 1971 to 1981

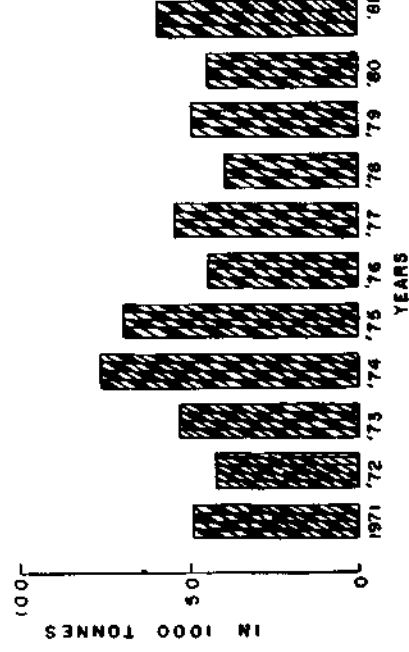


Fig. 9. Landings of catfishes during 1971 to 1981

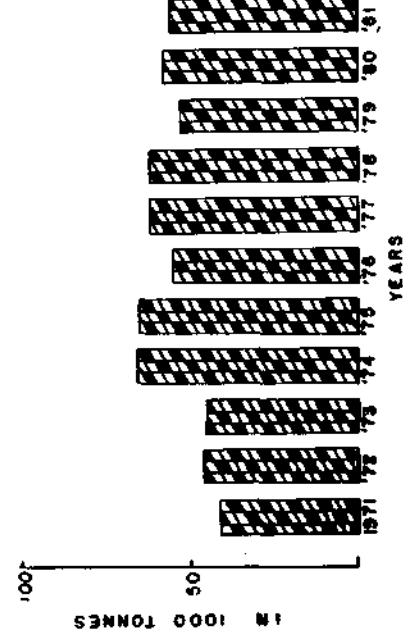


Fig. 10. Landings of elasmobranchs during 1971 to 1981

3,000 and 2,500 t respectively. The landings in Gujarat and Maharashtra, however, increased by about 3,600 and 3,500 t respectively. The sciaenids landings during 1971 to 1981 showed wide fluctuations (Fig. 5 and Table 4). The maximum and minimum landings were recorded in 1975 and 1971 respectively.

Silverbellies

An increase of about 15,000 t (27%) in the total catch of silverbellies was seen during 1981 as compared to 1980. This was mainly due to higher landings in the states of Tamil Nadu and Andhra Pradesh, the increase being about 13,000 and 6,000 t respectively. However, Karnataka and Kerala recorded lower landings to the extent of about 3,000 and 1,300 t respectively. Table 4 and Fig. 6 show annual landings of silverbellies during the years 1971 to 1981 which show fluctuating trend. While the maximum landings were recorded in 1981, the minimum catch was in 1972.

Lesser sardines

The total catch of lesser sardines declined by about 5,100 t (8%). Reduced landings in the states of Tamil Nadu, Kerala and Pondicherry by about 5,500, 3,400 and 1,400 t respectively brought down the total all India catch. Andhra Pradesh and Karnataka, however, recorded higher landings by about 1,800 and 1,200 t respectively. The landings of lesser sardines during the year 1971 to 1981 are presented in Table 4 and Fig. 7. The maximum and minimum landings were recorded in 1975 and 1972 respectively, the corresponding figures being 1,12,117 and 44,629 t.

Non-penaeid prawns

The landings of non-penaeid prawns during 1981 showed a marginal increase of about 2,700 t (5%). While Maharashtra and Gujarat recorded higher landings by about 5,500 and 600 t respectively, the landings in Andhra Pradesh and Kerala declined by about 2,700 and 1,500 t respectively. Table 4 and Fig. 8 give the trend in the yield of non-penaeid prawns during 1971 to 1981. While the maximum catch of 85,488 t was recorded in 1972 the minimum was recorded in 1978 (50,652 t.)

Catfishes

A substantial increase to the extent of about 15,600 t (36%) in the total catch of catfishes was noticed during 1981 as compared to 1980. This was possible by comparatively higher landings of catfishes in the states of

Gujarat, Maharashtra, Karnataka and Andhra Pradesh to the extent of about 5,100, 2,400, 2,100 and 1,900 t respectively. Kerala, however recorded lower landings by about 4,400 t. The trend in the catch of catfishes for the years 1971 to 1981 are shown in Table 4 and Fig. 9. While the maximum catch was recorded in 1974 (76,196 t), the minimum was seen in 1978 (39,231 t).

Elasmobranchs

The landings of elasmobranchs during 1981 declined marginally by about 1,900 t (3%). While Tamil Nadu, Kerala and Gujarat accounted for the decline by about 2,200, 1,900 and 1,100 t respectively, the landings in Maharashtra and Karnataka increased by about 1,900 and 1,200 t respectively. Fig. 10 and Table 4 show the catch trends during the 11 year period 1971 to 1981. The maximum catch of 66,054 t was recorded in 1974 and the minimum was observed in 1971 (41,348 t).

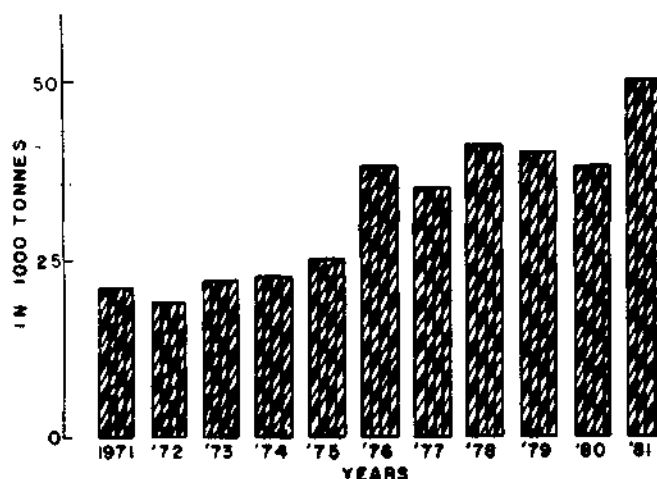


Fig. 11. Landings of pomfrets during 1971 to 1981.

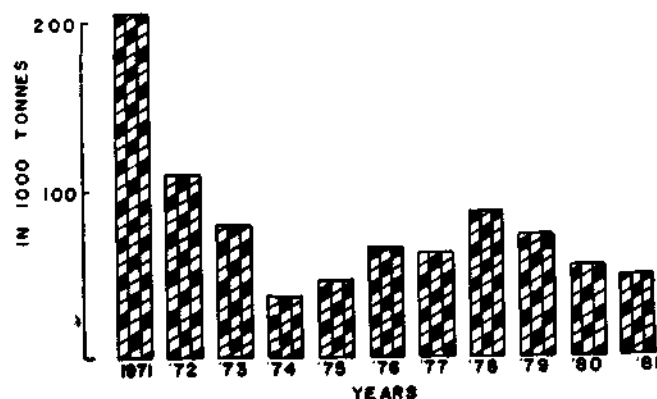


Fig. 12. Landings of mackerel during 1971 to 1981.

Pomfrets

A significant increase of about 10,500 t (27%) in the total catch of pomfrets was observed during 1981. This was due to higher landings in the states of Maharashtra and Gujarat to the extent of about 7,100 and 6,600 t respectively. The catch in Orissa, however, showed a decline of about 5,400 t. The trend in the landings of pomfrets for the years 1971 to 1981 are shown in Table 4 and Fig. 11. While the maximum catch was recorded in 1981 (48,728 t), the minimum was seen in 1972 (19,007 t).

Mackerel

The catch of mackerel during 1981 showed a decline of about 6,600 t (12%). While Tamil Nadu, Andhra

Pradesh and Kerala recorded lower landings by about 3,300, 2,900 and 2,300 t respectively, Goa accounted for an increase of about 1,500 t. Fig. 12 and Table 4 show the trend in the landings of mackerel during the years 1971 to 1981. The maximum catch of 204,575 t was recorded in 1971 and the minimum was observed in 1974 (37,462 t).

Statewise mechanised and non-mechanised fishing in 1981

Table 18 shows the statewise total mechanised and non-mechanised landings and of important species viz. oil sardine, mackerel, Bombay duck, sciaenids, perches, pomfrets, tunnies, penaeid and non-penaeid prawns and others during 1981. The salient features in different states are summarised below.

Table 18. Statewise landings of marine fish from mechanised and non-mechanised fishing crafts during 1981 (in tonnes)

STATE	WEST BENGAL			ORISSA					ANDHRA PRADESH		
Name of fish	Mechanised	Non mechanised	Grand total	Trawlers	Mechanised Others	Total	Non mechanised	Grand total	Trawlers	Mechanised Others	Total
Oil sardine	—	—	—	—	—	—	—	—	—	—	—
Mackerel	—	—	—	—	—	—	823	823	45	3	48
Bombay duck	8	610	618	12	—	12	61	73	44	—	44
Sciaenids	47	223	270	1,629	48	1,677	456	2,133	2,851	2	2,853
Perches	8	29	37	62	—	62	60	122	3,846	5	3,851
Pomfrets	2,705	613	3,318	174	2,308	2,482	1,203	3,685	171	—	171
Tunnies	—	—	—	9	—	9	241	250	7	—	7
Penaeid prawns	—	244	244	1,188	—	1,188	140	1,328	4,658	144	4,802
Non-penaeid prawns	—	1,251	1,251	53	—	53	2	55	387	—	387
Others	10,330	4,039	14,369	2,895	10,798	13,693	13,493	27,186	14,164	180	14,344
TOTAL	13,098	7,009	20,107	6,022	13,154	19,176	16,479	35,655	26,173	334	26,507
No. of operations of units	35,385	65,392		55,235	1,66,402		7,07,518		1,11,947	—	—

STATE	PONDICHERY					KARNATAKA					
Name of fish	Mechanised		Total	Non mechanised	Grand total	Trawlers	Purse-seiners	Mechanised Others	Total	Non mechanised	Grand total
Oil sardine	—	—	—	—	—	3,703	56,572	631	60,906	4,708	65,611
Mackerel	—	—	—	316	316	15	15,432	100	15,547	4,219	19,766
Bombay duck	—	—	—	—	—	—	—	—	—	—	—
Sciaenids	149	—	149	181	330	848	140	2	990	1,305	2,295
Perches	724	—	724	208	932	134	—	8	142	256	398
Pomfrets	8	—	8	115	123	29	6	17	52	367	419
Tunnies	1	34	35	20	55	—	2,299	89	2,388	129	2,517
Penaeid prawns	290	—	290	46	336	3,231	133	—	3,364	758	4,122
Non-penaeid prawns	10	—	10	43	53	4	—	—	4	—	4
Others	2,345	220	2,565	6,045	8,610	24,506	20,892	727	46,125	12,089	58,214
TOTAL	3,527	254	3,781	6,974	10,755	32,470	95,474	1,574	1,29,518	23,831	1,53,349
No. of operations of units	33,766	1,120		2,23,897		1,18,297	31,123	4,616		2,40,191	

West Bengal

In West Bengal, the mechanised catch during 1981 formed about 65% of the total catch. The catch of pomfrets from mechanised crafts was 21%. From non-mechanised crafts, the catch of prawns, Bombay duck and pomfrets was 21, 9 and 9 per cent respectively of the total catch.

Orissa

Fifty four per cent of the total catch in Orissa during 1981 came from mechanised crafts. The landings of pomfrets, sciaenids and prawns from mechanised crafts were 13, 9 and 6 per cent respectively. In non-mechanised fishing crafts, the catch of pomfrets formed about 7% and mackerel and sciaenids contributed to about 5% and 3% respectively of the total catch.

Andhra Pradesh

In Andhra Pradesh, 23% of the total catch came from mechanised fishing crafts, the balance being from non-mechanised crafts. The catch of prawns in mechanised fishing crafts was 20%, the share of perches and sciaenids being 15 and 11% of the total catch. Sciaenids contributed 5% of the total non-mechanised catch while prawns, mackerel, pomfrets and perches landed 5, 4, 3 and 2 per cent respectively.

Tamil Nadu

The share of mechanised catch in the total catch in Tamil Nadu during the year was 48%. Trawlers landed about 98% of the total mechanised catch. Prawns, sciaenids and perches contributed 11%, 10% and 3%

TAMIL NADU							KERALA					
Non mecha- nised	Grand total	Mechanised		Total	Non mecha- nised	Grand total	Trawlers	Mechanised Purse- seiners	Others	Total	Non mecha- nised	Grand total
		Trawlers	Others									
—	—	—	—	—	195	195	476	12,334	22,738	35,548	1,11,438	1,46,986
3,207	3,255	31	5	36	3,880	3,916	19	3,932	100	4,051	12,148	16,199
801	845	—	—	—	3	3	—	—	—	—	—	—
4,193	7,046	10,273	—	10,273	2,867	13,140	2,305	3	170	2,478	667	3,145
1,837	5,688	2,936	151	3,087	3,366	6,453	6,473	3	175	6,651	1,898	8,549
2,527	2,698	73	7	80	590	670	8	22	375	405	968	1,373
331	338	—	564	564	3,256	3,820	—	222	1,424	1,646	3,863	5,509
1,926	6,728	11,612	6	11,618	1,930	13,548	16,305	1	3	16,309	5,959	22,268
1,220	1,607	72	—	72	632	704	—	—	—	—	160	160
73,594	87,938	79,448	1,486	80,934	97,913	1,78,847	23,727	1,156	4,350	29,233	40,973	70,206
89,636	1,16,143	1,04,445	2,219	1,06,664	1,14,632	2,21,296	49,313	17,673	29,335	96,321	1,78,074	2,74,395
3,56,085		4,43,818	11,294		34,50,818		2,68,045	6,760	70,733		18,66,475	

GOA					MAHARASHTRA					GUJARAT				
Trawlers	Mechanised Others	Total	Non mecha- nised	Grand total	Traw- lers	Mechanised Others	Total	Non mecha- nised	Grand total	Traw- lers	Mechanised Others	Total	Non mecha- nised	Grand total
14	6,663	6,677	932	7,609	95	332	427	195	622	—	—	—	—	—
9	3,558	3,567	372	3,939	4	42	46	243	289	—	—	—	—	—
—	—	—	1	1	280	79,349	79,629	2,507	82,136	2,532	16,448	18,980	35,134	54,114
1,417	1	1,418	192	1,610	10,012	4,372	14,384	3,091	17,475	26,685	5,710	32,395	2,847	35,242
750	225	975	208	1,183	2,201	266	2,467	150	2,617	3,491	620	4,111	721	4,832
44	40	84	39	123	246	14,579	14,825	2,319	17,144	2,613	13,935	16,548	2,621	19,169
46	42	88	100	188	457	719	1,176	72	1,248	126	1,380	1,506	94	1,600
2,025	7	2,032	205	2,237	13,737	5,569	19,306	2,411	21,717	7,949	419	8,368	2,617	10,985
—	—	—	—	—	1,171	46,257	47,428	5,426	52,854	856	1,698	2,554	2,188	4,742
9,771	4,901	14,672	2,936	17,608	22,563	39,009	61,572	14,913	76,485	54,547	34,441	88,988	14,838	1,03,826
14,076	15,437	29,513	4,985	34,498	50,766	1,90,494	2,41,260	31,327	2,72,587	98,799	74,651	1,73,450	61,060	2,34,510
61,188	19,292	80,480	97,215	—	72,746	2,59,471	—	3,03,749	—	1,21,497	2,61,970	—	5,65,576	—

Table 19. Composition of marine fish landings from mechanised boats at major fish landings centres along the east coast of India (in tonnes)

Sl.No.	Name of fish	Visakhapatnam outer harbour		Kakinada fisheries harbour		Pudumanikuppam			Cuddalore fisheries harbour		
		Trawl net 1981	Trawl net 1980	Trawl net 1981	Trawl net 1980	Trawl net	Gill net 1981	Total 1980	Trawl net	Gill net 1981	Total 1980
1.	Elasmobranchs		187		188			145			26
a.	Sharks	22	—	56	—	87	95	182	—	44	44
b.	Skates	42	—	47	—	11	1	12	—	—	—
c.	Rays	78	—	304	—	214	71	285	9	—	9
2.	Eels	16	12	141	133	9	—	9	—	—	—
3.	Catfishes	150	197	190	131	15	6	21	1	—	1
4.	Clupeoids	—	—	—	—	—	—	—	—	—	—
a.	Wolf herring (<i>Chirocentrus</i>)	5	1	—	—	1	—	1	—	—	—
b.	Oil sardine	—	—	—	—	—	—	—	—	—	—
c.	Other sardines (Lesser sardines)	35	1	2	22	2	—	2	—	—	—
d.	Hilsa shad (<i>Hilsa ilisha</i>)	—	—	—	—	—	—	—	—	—	—
e.	Other shads (Other <i>Hilsa</i>)	—	—	—	—	—	—	—	—	—	—
f.	Anchovies	—	—	—	—	—	—	—	1	—	1
	<i>Coilia</i>	—	—	—	—	—	—	—	—	—	—
	<i>Setipinna</i>	—	—	—	—	—	—	—	—	—	—
	<i>Stolephorus</i> (<i>Anchoviella</i>)	133	116	187	540	166	—	166	15	—	15
	<i>Thryssa</i>	—	—	—	—	—	—	—	—	—	—
	<i>Thryssa</i> (<i>Thryssocles</i>)	68	101	81	217	59	—	59	1	—	1
g.	Other clupeoids	28	—	106	167	—	—	—	24	—	24
5.	Bombay duck (<i>Harpodon nehereus</i>)	—	6	34	70	—	—	—	—	—	—
6.	Lizard fishes (<i>Saurida</i> & <i>Saurus</i>)	501	622	219	130	464	—	464	117	—	117
7.	Half beaks & full beaks (<i>Hemirhamphus</i> & <i>Belone</i>)	—	—	—	19	—	—	—	—	—	—
8.	Flying fishes	—	—	—	—	—	—	—	—	—	—
9.	Perches	—	1,736	—	447	—	—	208	—	—	292
a.	Rock cods	3	—	—	—	—	—	—	—	—	—
b.	Snappers	—	—	2	—	—	—	—	—	—	—
c.	Pig-face brems	—	—	—	—	—	—	—	—	—	—
d.	Threadfin brems	361	—	417	—	795	—	795	98	—	98
e.	Other perches	656	—	378	—	357	—	357	28	—	28
10.	Goatfishes (Red mullets)	102	86	28	79	6	—	6	27	—	27
11.	Threadfins (Polynemids)	39	22	10	16	2	—	2	6	—	6
12.	Croakers (Sciaenids)	601	898	507	911	507	—	507	73	—	73
13.	Ribbon fishes	853	492	318	885	186	—	186	107	2	2
14.	Carangids	—	858	—	390	—	—	—	—	—	—
a.	Horse mackerel	—	—	—	—	—	—	8	—	—	6
b.	Scads	333	—	1,203	—	10	—	10	—	—	—
c.	Leather-jackets (<i>Chorinemus</i>)	—	—	—	—	2	5	7	—	4	4
d.	Other carangids	83	—	71	90	39	10	49	16	—	16

Table 19 Contd.

15.	Silver bellies (<i>Leiognathus</i> & <i>Gazza</i>)	380	503	393	588	1,577	—	1,577	162	334	—	334	643
16.	Big-jawed jumper (<i>Lactarius</i>)	54	23	15	60	—	—	—	—	—	—	—	4
17.	Pomfrets	—	5	—	15	—	—	—	—	—	—	—	2
a.	Black pomfret	7	—	—	—	2	1	3	—	—	—	—	—
b.	Silver pomfret	13	—	11	—	2	—	2	—	—	—	—	—
c.	Chinese pomfret	—	—	—	—	—	—	—	—	1	—	1	—
18.	Mackerel	—	76	—	161	—	—	—	—	—	—	—	—
a.	Indian mackerel	8	—	1	—	9	—	9	—	—	—	—	—
b.	Other mackerels	—	—	—	—	—	—	—	—	—	—	—	—
19.	Seer fishes	—	—	—	—	—	—	—	25	—	—	—	—
a.	<i>S. commersoni</i>	—	—	—	—	12	69	81	—	—	23	23	1
b.	<i>S. guttatus</i>	1	—	—	—	4	31	35	—	—	—	—	—
c.	<i>S. lineolatus</i>	—	—	—	—	—	9	9	—	—	—	—	—
d.	<i>Acanthocybium</i> Sp.	—	—	—	—	—	—	—	—	—	—	—	—
20.	Tunnies	—	—	—	—	—	—	—	4	—	—	—	1
a.	<i>E. affinis</i>	—	—	—	—	—	10	10	—	—	23	23	—
b.	<i>Auxis</i> spp.	—	—	—	—	—	—	—	—	—	—	—	—
c.	<i>K. pelamis</i>	—	—	—	—	—	8	8	—	—	—	—	—
d.	<i>T. tonggol</i>	—	—	—	—	—	—	—	—	—	—	—	—
e.	Other tunnies	—	—	—	—	—	3	3	—	—	—	—	—
21.	Billi fishes	—	—	—	—	—	19	19	—	—	6	6	—
22.	Barracudas (<i>Sphyræna</i>)	14	2	21	11	11	—	11	6	—	4	4	1
23.	Mullets (<i>Mugil</i>)	—	—	—	—	—	—	—	—	—	—	—	—
24.	Unicorn cod (<i>Bregmaceros</i>)	—	—	—	—	—	—	—	—	—	—	—	—
25.	Flatfishes	—	—	—	—	—	—	—	—	—	—	—	—
a.	Halibut (<i>Psettodes erumei</i>)	5	—	—	—	—	—	—	—	—	—	—	—
b.	Flounders	—	—	—	—	—	—	—	—	—	—	—	—
c.	Soles	74	135	94	161	46	—	46	4	14	—	14	13
26.	Crustaceans	—	—	—	—	—	—	—	—	—	—	—	—
a.	Penaeid prawns	816	784	1,953	1,865	1,023	—	1,023	165	104	—	104	121
b.	Non penaeid prawns	1	—	366	833	174	—	174	—	—	—	—	—
c.	Lobsters	1	—	—	—	—	—	—	—	—	—	—	—
d.	Crabs	361	400	254	352	—	—	—	51	31	—	31	25
e.	Stomatopods	12	—	254	—	—	—	—	11	2	—	2	6
27.	Cephalopods	206	246	88	126	128	—	128	44	28	—	28	40
28.	Miscellaneous	44	542	165	418	281	1	282	270	78	—	78	175
TOTAL		6,106	8,051	7,916	9,025	6,201	339	6,540	1,496	1,004	104	1,108	1,969
No. of operations of fishing units		31,689	35,406	35,715	40,674	26,671	2,127	—	14,129	8,043	863	—	16,012

Table 19. Composition of marine fish landings from mechanised boats at major fish landing centre along the east coast of India (in tonnes)

(Continued)

Sl.No.	Name of fish	Nagapatnam		Mandapam		Rameswaram			Tuticorin fisheries harbour			1980
		Trawl net 1981	Trawl net 1980	Trawl net 1981	Trawl net 1980	Trawl net 1981	Gill net 1981	Total 1980	Trawl net 1981	Gill net 1981	Total	
1.	Elasmobranchs	—	78	—	142	—	—	—	2,370	—	—	751
a.	Sharks	25	—	1	—	—	2	2	278	2	280	—
b.	Skates	—	—	—	—	—	—	—	—	—	—	—
c.	Rays	138	—	289	—	3,453	—	3,453	325	2	327	—
2.	Eels	12	5	4	—	—	—	—	2	—	2	—
3.	Cat fishes	51	4	153	81	79	2	81	179	393	1	394
4.	Clupeoids	—	—	—	—	—	—	—	—	—	—	—
a.	Wolf herring (<i>Chirocentrus</i>)	15	—	3	—	—	4	4	92	3	95	7
b.	Oil sardine	—	—	—	—	—	—	—	—	—	—	—
c.	Other sardines (Lesser sardines)	2	2	47	36	11	—	11	23	50	1	51
d.	Hilsa shad (<i>Hilsa ilisha</i>)	—	—	12	—	—	—	—	—	—	—	—
e.	Other shads (Other Hilsa)	—	—	16	11	95	—	95	77	—	—	8
f.	Anchovies	—	—	—	—	—	—	—	—	—	—	—
	<i>Coilia</i>	171	—	—	—	—	—	—	—	—	—	—
	<i>Setipinna</i>	—	—	—	—	—	—	—	—	—	—	—
	<i>Stolephorus</i> (<i>Anchoviella</i>)	183	253	—	—	—	—	—	226	—	226	90
	<i>Thrissina</i>	—	—	—	—	—	—	—	—	—	—	—
	<i>Thryssa</i> (<i>Thrissocles</i>)	114	17	36	6	1	—	1	1,120	—	1,120	20
g.	Other clupeoids	247	241	62	4	9	—	9	11	432	3	435
5.	Bombay duck (<i>Harporodon nehereus</i>)	—	—	—	—	—	—	—	—	—	—	—
6.	Lizard fishes (<i>Saurida</i> & <i>Saurus</i>)	146	91	10	5	205	—	205	135	18	18	37
7.	Half beaks & full beaks (<i>Hemirhamphus</i> & <i>Belone</i>)	—	—	—	1	—	—	—	—	—	—	—
8.	Flying fishes	—	—	—	—	—	—	—	—	—	—	—
9.	Perches	—	142	—	1	—	—	—	13	—	—	19
a.	Rock cods	—	—	9	—	—	—	—	4	3	7	—
b.	Snappers	—	—	—	—	—	—	—	7	—	7	—
c.	Pig-face breams	—	—	2	—	—	—	—	4	—	4	—
d.	Threadfin breams	248	—	2	—	—	—	—	15	—	15	—
e.	Other perches	112	—	70	—	55	—	55	9	1	10	—
10.	Goatfishes (Red mullets)	10	19	52	32	508	—	508	340	—	—	—
11.	Threadfins (Polynemids)	—	—	1	—	—	—	—	—	—	—	—
12.	Croakers (<i>Sciaenids</i>)	500	199	280	64	2,126	—	2,126	816	704	704	1,010
13.	Ribbon fishes	75	26	11	—	—	—	—	87	—	87	32
14.	Carangids	—	—	—	—	—	—	—	—	—	—	—
a.	Horse mackerel	—	65	—	1	—	—	—	15	—	—	—
b.	Scads	—	—	—	—	—	—	—	—	—	—	—
c.	Leather-jackets (<i>Chorinemus</i>)	—	—	6	—	—	—	—	—	—	—	—
d.	Other carangids	142	—	29	—	17	—	17	3	1	4	—

Table 19 Contd.

15.	Silver bellies (<i>Leiognathus</i> & <i>Gazza</i>)	756	449	3,194	1,592	10,310	—	10,310	7,474	1,714	—	1,714	543
16.	Big-jawed jumper (<i>Lactarius</i>)	49	39	2	1	—	—	—	—	11	4	15	—
17.	Pomfrets	—	7	—	2	—	—	—	—	—	—	—	—
a.	Black pomfret	5	—	1	—	—	—	—	—	—	—	—	—
b.	Silver pomfret	28	—	3	—	—	—	—	—	2	—	2	—
c.	Chinese pomfret	—	—	—	—	—	—	—	—	—	—	—	—
18.	Mackerel	—	1	—	1	—	—	—	2	—	—	—	—
a.	Indian mackerel	—	—	—	—	4	—	4	—	—	5	5	—
b.	Other mackerels	—	—	—	—	—	—	—	—	—	—	—	—
19.	Seer Fishes	—	—	—	—	—	—	—	—	—	—	—	14
a.	<i>S. commersoni</i>	—	—	—	—	—	—	—	—	1	7	8	—
b.	<i>S. guttatus</i>	—	—	—	—	—	—	—	—	—	—	—	—
c.	<i>S. lineolatus</i>	—	—	—	—	—	—	—	—	—	—	—	—
d.	<i>Acanthocybium</i> Sp.	—	—	—	—	—	—	—	—	—	—	—	—
20.	Tunnies	—	—	—	—	—	—	—	—	—	—	—	—
a.	<i>E. affinis</i>	—	—	—	—	—	—	—	—	—	—	—	—
b.	<i>Auxis</i> spp.	—	—	—	—	—	—	—	—	—	—	—	—
c.	<i>K. pelamis</i>	—	—	—	—	—	—	—	—	—	—	—	—
d.	<i>T. tonggol</i>	—	—	—	—	—	—	—	—	—	—	—	—
e.	Other tunnies	—	—	—	—	—	—	—	—	—	—	—	—
21.	Bill fishes	—	—	—	—	—	—	—	—	—	—	—	—
22.	Barracudas (<i>Sphyraena</i>)	17	1	—	—	—	—	—	—	13	3	16	—
23.	Mulletts (<i>Mugil</i>)	3	2	—	—	—	—	—	—	—	—	—	—
24.	Unicorn Cod (<i>Bregmaceros</i>)	—	—	—	—	—	—	—	—	—	—	—	—
25.	Flatfishes	—	—	—	—	—	—	—	—	—	—	—	—
a.	Halibut (<i>Psettodes erumei</i>)	60	—	—	—	—	—	—	—	—	—	—	—
b.	Flounders	—	—	—	—	—	—	—	—	—	—	—	—
c.	Soles	92	66	65	34	169	—	169	136	89	—	89	278
26.	Crustaceans	—	—	—	—	—	—	—	—	—	—	—	—
a.	Penaeid prawns	349	112	803	217	2,101	—	2,101	1,367	3,431	—	3,431	626
b.	Non penaeid prawns	24	13	—	—	—	—	—	—	—	—	—	—
c.	Lobsters	3	—	—	—	—	—	—	—	—	—	—	—
d.	Crabs	91	35	232	150	640	—	640	401	42	—	42	41
e.	Stomatopods	—	—	13	1	50	—	50	201	—	—	—	—
27.	Cephalopods	22	13	31	33	158	—	158	90	23	—	23	—
28.	Miscellaneous	183	127	20	118	587	—	587	717	3,274	3	3,277	3,070
TOTAL		3,873	2,007	5,459	2,533	20,578	8	20,586	14,378	12,369	39	12,408	6,585
No. of operations of fishing units		15,827	9,307	47,840	25,143	101,449	79	78,758	31,846	235	—	—	30,711

respectively to the total mechanised catch. From non-mechanised fishing crafts the landings of mackerel, perches, tunnies, sciaenids and prawns were about 3,900, 3,400, 3,300, 2,900 and 2,600 t respectively.

Pondicherry

In Pondicherry, the mechanised catch during 1981 formed about 35% of the total catch, of which 93% came from trawlers.

Kerala

Mechanised boats in Kerala during the year landed about 35% of the total catch. Out of the total mechanised catch of about 96,300 t, trawlers, purse seiners and others landed about 51%, 18% and 31% respectively. In trawler landings, prawns formed about 33% of the total catch from the craft. Oil sardine and mackerel were the major fishes landed by the purseseinners, their contributions being 70% and 22% respectively. From non-mechanised fishing crafts, the landings of oil sardine and mackerel formed about 63% and 7% respectively.

Karnataka

In Karnataka, 84% of the total catch came from mechanised fishing crafts. Out of a total of about 130,000 t of mechanised catch, the share of purse-seiners, trawlers and others was 74%, 25% and 1% respectively. The landings of oil sardine and mackerel from purse seines were 56,600 (59%) and 15,400 (16%) t respectively. From non-mechanised boats, the landings of oil sardine, mackerel and sciaenids formed about 20%, 18% and 5% respectively.

Goa

The landings from mechanised fishing crafts in Goa represented about 86%. Trawlers landed about 48% of the total mechanised catch. The landings of prawns, sciaenids and perches in trawlers were 2,000, 1,400 and 750 t respectively. Oil sardine and mackerel from non-mechanised fishing crafts formed about 19% and 7% respectively.

Maharashtra

In Maharashtra, the mechanised catch during 1981 formed about 89% of the total catch. The share of trawler catch in the total mechanised catch was about 21%. Prawns and sciaenids landings amounted to 14,908 (29%) and 10,000 t (20%) respectively from

the trawlers. In non-mechanised fishing crafts, the landings of prawns, sciaenids, Bombay duck and pomfrets were 7,837 (25%), 3,091 (10%), 2,507 (8%) and 2,319 (7%) t respectively.

Gujarat

The landings from mechanised fishing crafts in Gujarat formed about 74% of the total catch in 1981. The trawler catch was about 57% of the total mechanised landings. Sciaenids and prawns landed about 27% and 9% respectively of the total catch from trawlers. In non-mechanised fishing crafts the share of Bombay duck was about 58% of the total catch.

Landings of mechanised boats at important landing centres

Vishakhapatnam Outer Harbour

The total landings from trawlers during 1981 showed a decline of about 1,900 t (24%) as compared to 1980 (Table 19). The number of operations also declined by about 3,700. The catch per unit effort during 1981 and 1980 was 193 and 227 kg respectively. The decline in the total landings was mainly due to lower landings of perches, carangids, croakers and silver bellies to the extent of about 720, 440, 300 and 120 t respectively. The landings of ribbon fish, however, showed an increase of about 360 t.

Kakinada Fisheries Harbour

Both the catch and the number of operations of trawlers declined during 1981 as compared to the previous year, the former by 1,109 t (12%) and the latter by 4,959 (12%) (Table 19). The catch per unit effort, however, remained more or less the same (222 kg) in 1981 and 1980. The lesser catch of clupeoids, ribbon fish, non-penaeid prawns, croakers, silverbellies and crabs by about 570, 570, 470, 400, 200 and 100 t respectively brought about the reduced total catch during 1981. However, an increase in the landings of carangids, perches, elasmobranchs and penaeid prawns by about 800, 350, 220 and 90 t respectively was noticed.

Padumanikuppam

The total landings from trawlers and gill netters during 1981 showed an increase of about 5,000 tonnes. (Table 19). In 1981, while 95% of the total mechanised catch was from trawlers, the balance came from gill netters. The catch per unit effort in respect of

Table 20. Composition of marine fish landing from mechanised boats at major fish landing centres along the west coast of India (in tonnes).

Sl.No.	Name of fish	SAKTHIKULANGARA			COCHIN FISHERIES HARBOUR			
		1981		1980	1981		1980	
		Trawl net	Gill net	Total	Trawl net	Gill net	Purse-seine	Total
1.	Elasmobranchs			1,722				523
a.	Sharks	7	402	409	7	465	1	473
b.	Skates		23	23	1	9		10
c.	Rays	325	15	340	47	36	5	88
2.	Eels	2		2		1		1
3.	Catfishes	3,406	183	3,589	253	389	134	776
4.	Clupeoids							
a.	Wolf herring (<i>Chirocentrus</i>)		2	2		6		6
b.	Oil sardine	24		24	189	2	12,165	12,356
c.	Other sardines (Lesser sardines)						372	372
d.	Hilsa shad (<i>Hilsa ilisha</i>)							10,431
e.	Other shads (Other <i>Hilsa</i>)							197
f.	Anchovies							
	Coilia							
	Setipinna							
	Stolephorus (<i>Anchoviella</i>)	324		324	74		85	159
	Thrissina							
	Thryssa (<i>Thrissocles</i>)				23		13	36
g.	Other clupeoids				16		7	23
5.	Bombay duck (<i>Harporodon nehereus</i>)							
6.	Lizard fishes (<i>Saurida & Saurus</i>)	5,114	1	5,115	303			303
7.	Half beaks & full beaks (<i>Hemirhamphus & Belone</i>)		2	2		3	1	4
8.	Flying fishes							
9.	Perches			14,926				965
a.	Rock cods		13	13	5	2		7
b.	Snappers				23	1	1	25
c.	Pig-face breams							
d.	Threadfin breams	3,562		3,562	2,295			2,295
e.	Other perches	209		209	178	8	2	188
10.	Goatfishes (Red mullets)	3		3				
11.	Threadfins (Polynemids)							
12.	Croakers (Sciaenids)	1,263	4	1,267	229	2	3	234
13.	Ribbon fishes	26	1	27	8		6	14
14.	Carangids							
a.	Horse mackerel		2	2		7	17	24
b.	Scads	66	2	68		2		2
c.	Leather-jackets (<i>Chorinemus</i>)					14	9	23
d.	Other carangids	39	18	57	22	102	371	495
15.	Silverbellies (<i>Leiognathus & Gazza</i>)	584	2	586	25		20	45
16.	Big-jawed jumper (<i>Lactarius</i>)	124		124	18			18
17.	Pomfrets			108				
a.	Black pomfret		21	21		148	16	164
b.	Silver pomfret		2	2	4	6	6	16
c.	Chinese pomfret					9		9
18.	Mackerel			133				
a.	Indian mackerel	4	27	31	9	40	3,900	3,949
b.	Other mackerel							4,358
19.	Seer fishes		21	21				
a.	<i>S. commersoni</i>		58	58		205	1	206
b.	<i>S. guttatus</i>					9		9
c.	<i>S. lineolatus</i>							
d.	<i>Acanthocybium</i> sp.							
20.	Tunnies			794				1,277
a.	<i>E. affinis</i>		250	250		461	64	525
b.	<i>Auxis</i> spp.		19	19		390		390
c.	<i>K. pelamis</i>							
d.	<i>T. tonggol</i>					7		7
e.	Other tunnies		17	17		61	155	216
21.	Bill fishes		13	13		30		30
22.	Barracudas (<i>Sphyraena</i>)	42		42	17	5	26	48
23.	Mulletts (<i>Mugil</i>)						67	67
24.	Unicorn cod (<i>Bregmaceros</i>)							

Table 20 Contd.

25.	Flatfishes								
a.	Halibut (<i>Psettodes erumei</i>)	60	1	61	11	1		12	
b.	Flounders								
c.	Soles	2,004		2,004	2,791	282		282	208
26.	Crustaceans								
a.	Penaeid prawns	9,537		9,537	36,559	2,530	1	2,531	3,515
b.	Non penaeid prawns								
c.	Lobsters	3		3					
d.	Crabs	74		74	4,167	38		38	86
e.	Stomatopods	1,901		1,901		261		261	618
27.	Cephalopods	802		802	2,150	95		95	80
28.	Miscellaneous	1,809	14	1,823	3,939	161	40	6	207
	TOTAL	31,314	1,113	32,427	84,556	7,124	2,461	17,454	27,039
	No. of operations of fishing units	126,880	8,444		187,843	44,323	21,947	8,870	96,147

trawlers and gill netters was 233 and 159 kg. While the catch of perches, silverbellies and penaeid prawns from both increased by about 1,130, 1,030, 1,030 and 400 t respectively, croakers, elasmobranchs and flat fishes recorded reduced landings by about 500, 270 and 230 t respectively.

Cuddalore Fisheries Harbour

The total catch by trawlers and gill netters declined by about 900 t during 1981 (Table 19). The trawlers landed about 91 % of the total mechanised catch in 1981 and the rest by gill netters. The catch per unit effort for trawlers was 125 kg while that of gill netters 121 kg. The decline in the total mechanised catch was mainly due to reduced landings of silverbellies, perches and clupeoids by about 310, 170 and 130 t respectively.

Nagapatnam

The catch of trawlers during 1981 increased by about 1,900 t. (93%) Table 19). The number of operations of the trawlers also increased by about 6,500. The catch per unit effort during 1981 and 1980 was 245 and 216 kg respectively. Most of the species recorded improved catches during 1981, the major species that showed higher landings were silverbellies, croakers, penaeid prawns, clupeoids, flat fishes and elasmobranchs, the increase being about 310, 300, 240, 220, 90 and 90 t respectively.

Mandapam

The catch obtained from trawlers during 1981 was more than double as compared to 1980 (Table 19). The number of operations of the boats also increased by about 22,700. The catch per unit effort during 1981 increased to 114 kg from 101 kg recorded in 1980. The species which recorded higher landings during 1981 were silverbellies, penaeid prawns, croakers and elasmobranchs whose catches increased by about 1,600, 600, 200 and 150 t respectively.

Rameswaram

The total catch from trawlers and gill netters during 1981 increased by about 6,200 t, the bulk of the catch being from trawlers (Table 19). The catch per unit effort for trawlers and gill netters during 1981 was 203 and 101 kg respectively. Barring stomatopods and catfishes whose catch declined by about 150 and 100 t respectively, all the other major species recorded higher catches from both during 1981. The species that recorded higher landings were silverbellies, croakers, elasmobranchs, penaeid prawns, crabs and goat fishes whose landings increased by about 2,800, 1,300, 1,100, 700, 200 and 170 t respectively.

Tuticorin Fisheries Harbour

The total catch from both trawlers and gill netters during 1981 showed an increase of about 5,800 t (88%) as compared to 1980, the bulk of the catch coming from trawlers (Table 19). While the catch per unit effort from trawlers was about 385 kg the same from gill netters was about 166 kg. The significant increase in the total catch of both during 1981 was due to higher catches of penaeid prawns, clupeoids and silver bellies, the increase in their landings being about 2,800, 1,800 and 1,200 t respectively. The landings of croakers, soles and elasmobranchs, however, decreased by about 300, 200 and 140 t respectively.

Sakthikulangara

The total catch by trawlers during 1981 decline by about 50,000 tonnes, the corresponding number of operations of fishing crafts also declined by about 46,000 (Table 20). The catch per unit effort also declined to 247 kg in 1981 from 470 kg recorded in 1980. The poor landings of prawns, perches, catfishes and croakers respectively by about 27,000, 11,000, 2,500 and 1,200 t were responsible for the sharp decline in the total catch.

Table 20. *Composition of marine fish landings from mechanised boats at major fish landing centres along the west coast of India (in tonnes)*

(Continued)

SASSOON DOCKS						
1981						
Sl. No.	Name of fish	Trawl net	Dol net	Gill net	Hooks & lines	Total
1.	Elasmobranchs					1,337
a.	Sharks	908	—	244	45	1,197
b.	Skates	38	—	—	2	40
c.	Rays	493	1	56	5	555
2.	Eels	97	—	—	29	126
3.	Catfishes	1,720	4	1	252	1,977
4.	Clupeoids					2,196
a.	Wolf herring (<i>Chirocentrus</i>)	57	—	99	—	156
b.	Oil sardine	68	28	—	—	96
c.	Other sardines (Lesser sardines)	—	4	—	—	4
d.	Hilsa shad (<i>Hilsa ilisha</i>)	—	—	—	—	—
e.	Other shads (Other <i>Hilsa</i>)	—	2	95	—	97
f.	Anchovies					84
	<i>Coilia</i>	1,008	107	—	—	1,115
	<i>Setipinna</i>	—	—	—	—	—
	<i>Stolephorus</i> (<i>Anchoviella</i>)	—	—	—	—	—
	<i>Thrissina</i>	—	—	—	—	—
	<i>Thryssa</i> (<i>Thrissocles</i>)	—	—	—	—	—
g.	Other clupeoids	58	4	7	—	69
5.	Bombay duck (<i>Harpodon nehereus</i>)	18	441	—	—	459
6.	Lizard fishes (<i>Saurida</i> & <i>Saurus</i>)	334	—	—	—	334
7.	Half beaks & Full beaks (<i>Hemiramphus</i> & <i>Belone</i>)	—	—	—	—	—
8.	Flying fish	—	—	—	—	—
9.	Perches					1,802
a.	Rock cods	20	—	—	—	20
b.	Snappers	22	—	—	—	22
c.	Pig-face breams	—	—	—	—	—
d.	Threadfin breams	1,018	—	—	—	1,018
e.	Other perches	34	—	2	4	40
10.	Goatfishes (Red mullets)	37	—	—	—	37
11.	Threadfins (Polynemids)	130	—	—	1	131
12.	Croakers (Sciaenids)	4,135	76	—	21	4,232
13.	Ribbon fishes	1,364	33	1	—	1,398
14.	Carangids					1,865

Table 20 Contd.

	a.	Horse mackerel	2	—	23	—	25	11
	b.	Scads	—	—	—	—	—	—
	c.	Leather-jackets <i>Chorinemus</i>	—	—	40	—	40	19
	d.	Other carangids	56	—	—	—	56	38
15.		Silverbellies <i>(Leiognathus & Gazza)</i>						23
16.		Big-jawed jumper <i>(Lactarius)</i>						
17.		Pomfrets	3	—	—	—	3	334
	a.	Black pomfret	1	—	255	—	256	
	b.	Silver pomfret	59	27	138	—	224	
	c.	Chinese pomfret	—	—	—	—	—	
18.		Mackerel						
	a.	Indian mackerel	—	—	—	—	—	
	b.	Other mackerels	—	—	—	—	—	
19.		Scor fishes	45	—	179	—	224	143
	a.	<i>S. commersoni</i>	4	—	—	—	4	
	b.	<i>S. guttatus</i>	4	—	8	—	12	
	c.	<i>S. lineolatus</i>	—	—	—	—	—	
	d.	<i>Acanthocybium</i> Sp.	—	—	—	—	—	
20.		Tunnies						333
	a.	<i>E. affinis</i>	—	—	1	—	1	
	b.	<i>Auxis</i> spp.	—	—	—	—	—	
	c.	<i>K. pelamis</i>	—	—	7	—	7	
	d.	<i>T. tonggol</i>	—	—	—	—	—	
	e.	Other tunnies	41	—	500	—	541	
21.		Bill fishes	—	1	72	—	73	
22.		Barracudas (<i>Sphyræna</i>)	—	—	—	—	—	
23.		Mulletts (<i>Mugil</i>)	—	—	—	—	—	
24.		Unicorn cod <i>(Bregmaceros)</i>	—	—	—	—	—	
25.		Flatfishes	29	—	—	—	29	
	a.	Halibut (<i>Psettodes erumei</i>)	—	—	—	—	—	
	b.	Flounders	34	—	4	—	38	
	c.	Soles	386	—	—	—	386	236
26.		Crustaceans						
	a.	Penaeid prawns	6,171	121	—	—	6,292	5,001
	b.	Non penaeid prawns	251	1,066	—	—	1,317	1,093
	c.	Lobsters	82	—	—	—	82	98
	d.	Crabs	—	—	—	—	—	5
	e.	Stomatopods	—	1	—	—	1	—
27.		Cephalopods	859	—	—	—	859	635
28.		Miscellaneous	1	9	—	—	10	119
TOTAL			19,587	1,925	1,732	359	23,603	20,835
No. of operations of fishing units			21,540	13,999	4,533	1,617		37,462

The landings from gillnetters also declined by about 2,200 t. Both the number of operations and catch per unit effort declined in 1981 as compared to 1980 the former by 6,700 and the latter by 89 kg. The lower landings of catfishes, tunnies, elasmobranchs and seer fishes by 600, 500, 500 and 300 t respectively brought down the total catch.

Cochin Fisheries Harbour

The total catch from trawlers declined marginally by about 800 t. The number of operations and the catch per unit effort also declined marginally during 1981 as compared to 1980, the former by 1,800 and the latter by 11 kg. The landings of clupeoids, stomatopods, croakers, carangids and catfishes declined by about 620, 360, 160, 100 and 80 t respectively. Perches, however, recorded a substantial increase of about 1,600 t. (Table 20)

While the catch from gill netters declined by 100 t, the catch per unit effort showed an increase of about 48 kg, since the number of operations declined sharply by about 18,500. The lower total catch during 1981 was mainly due to reduced landings of tunnies by about

240 t. The catch of elasmobranchs and pomfrets, however, increased by about 80 and 50 t respectively.

The purse seiner landings during 1981 showed an increase of about 2,600 t. While the number of operations of the boats declined by 710, the catch per unit effort increased by about 417 kg. The landings of clupeoids increased by about 2,300 t and of mackerel declined by about 320 t.

Sassoon Docks

During 1981, mechanised boats operated with trawl nets, dol nets, gill nets and hooks and lines in Sassoon Docks, the combined catch for all the gears being 23,603 t as compared to 20,835 t in 1980, showing an increase of about 2,800 t (13%) (Table 20). The bulk of the mechanised catch during 1981 was from trawlers (83%), the rest being from dol nets (8%), gill nets (7%) and hooks and lines (2%). Comparatively higher landing of penaeid prawns, croakers and non penaeid prawns during 1981 contributed to the higher catch in the year, the increase in their landings being 1,300, 1,250 and 220 t respectively. The catch of perches, however, showed a decline.

